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25 June, 2007

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INVISTA S.à r.l. INVISTA Building P.O. Box 2936 Wichita, KS 67201-2936

316-828-1000 Tel

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TSCA Document Control Office (7407M) ATTN: TSCA Section 8(e) Coordinator EPA East Building, Room 6428 Office of Pollution Prevention and Toxics U.S. Environmental Protection Agency 1201 Constitution Avenue, NW Washington, DC 20460-0001



Re: TSCA 8(e) Supplemental Notice for 8EHQ-07-16749: Draft Final Sub-chronic Toxicity Data on 1,2-Diaminocyclohexane

Dear Sir:

INVISTA is submitting this letter to supplement its previous TSCA 8(e) submissions on February 28, 2007, April 2, 2007 and May 7. 2007 concerning draft results from an oral gavage OECD 422, sub-chronic toxicity study on 1,2-Diaminocyclohexane, CASRN 694-83-7, with additional draft toxicity data.

This draft final document (see attachment) summarizes the effects reported, to date, in this study. This 8(e) supplement will list additional findings, not yet reported to the Agency, which have just been made known to INVISTA by the testing Laboratory. These additional findings include:

- 1. Slight neurotoxicity was reported as slightly increased motor activity in 500 mg/kg females at the low sensor location.
- 2. Slight clinical biochemistry findings were noted as a treatment related decrease in eosinophils in males and females at 500 mg/kg. Also, cholesterol levels were increased, in males, at 150 mg/kg (earlier reported only at the 500 mg/kg dose, in males).
- 3. Microscopic examination of livers revealed slight hepatocellular vacuolization in males at 500 mg/kg. This finding supplements an earlier 8(e) submission regarding pale discoloration of livers, as well as previously submitted clinical biochemistry liver toxicity biomarkers.
- 4. Slight changes in lung and adrenal gland morphology were noted by macroscopic examination (lungs grey-white foci in 500 mg/kg females) and by microscopic examination (lungs and adrenal glands at 500 mg/kg only) and were correlated with decreases in lung and adrenal organ weights. Slight microscopic changes included: A. A moderate increase was observed in incidence and severity of alveolar macrophage foci in lungs of 500 mg/kg females. B. Lymphocytic alveolar inflammation incidence was slightly increased in lungs of 500 mg/kg males and an increase in lymphocytic alveolar inflammation severity was observed in lungs of 500 mg/kg females. C. In 500 mg/kg males, minor vacuolization in the zona fasiculata of the adrenal glands was observed as a possible treatment related trend.
- 5. There was an increased incidence in missing or cannibalized pups in all treatment groups when compared to concurrent or historical controls. No dose response relationship was apparent but this finding may be treatment related. This increased incidence correlated with an increase in post natal loss which was observed at 50 mg/kg (previously reported at 150 and 500 mg/kg).

These findings do not necessarily indicate that 1,2-Diaminocyclohexane is a specific neurological, reproductive, or developmental toxicant. Although maternal toxicity is apparent at the high dose, and

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likely at the mid dose, EPA guidelines generally require reporting of neurological, reproductive, or developmental effects at any dose regardless of the presence of maternal toxicity. The above information is from a draft study that has not yet been completed. INVISTA will submit the final version of the study to EPA when it becomes available.

This report is being submitted in accordance with TSCA Section 8(e) guidance. Please do not hesitate to contact me if you have any questions. I may be reached at (316) 828-1470.

Sincerely,

Betsy Duncan

TSCA Program Manager

Environmental Health and Safety

BETSY Duncan

Attachment

DRAFT REPORT APPROVAL STATEMENT

Study Title

A combined 28-day repeated dose toxicity study with the

reproduction/developmental toxicity screening test of DYTEK®

DCH-99 in rats by oral gavage.

NOTOX Substance

170676/A

NOTOX Project

479003

STUDY DIRECTOR STATEMENT

The undersigned declares that this draft report constitutes a true account of the procedures adopted and the results obtained in the performance of this study.

JUN 29 531

Study director

Ir. M.H.M. van Tuyl

04 June 2007

APPROVAL Management

Drs. A.W.M. van Rozendaal

04 June 2007

date:

DRAFT REPORT

Version 1

Study Title

A COMBINED 28-DAY REPEATED DOSE TOXICITY STUDY WITH THE REPRODUCTION/DEVELOPMENTAL TOXICITY SCREENING TEST OF DYTEK® DCH-99 IN RATS BY ORAL GAVAGE

<u>Author</u>

Ir. M.H.M. van Tuyl

Study completion date

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Test Facility

NOTOX B.V. Hambakenwetering 7 5231 DD 's-Hertogenbosch The Netherlands

Laboratory Study Identification

NOTOX Project 479003 NOTOX Substance 170676/A

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2. STATEMENT OF GLP COMPLIANCE

NOTOX B.V., 's-Hertogenbosch, The Netherlands

The study described in this report has been correctly reported and was conducted in compliance with:

The Organization for Economic Cooperation and Development (OECD) Good Laboratory Practice Guidelines (1997).

Which essentially conform to:

The United States Food and Drug Administration Good Laboratory Practice Regulations.

The United States Environmental Protection Agency Good Laboratory Practice Regulations.

The sponsor is responsible for Good Laboratory Practice (GLP) compliance for all test substance information unless determined by NOTOX.

The GLP statement for the delegated phase histopathology is included in Appendix 4 of this report.

NOTOX B.V.

Ir. M.H.M. van Tuyl Study Director Drs. A.W.M. van Rozendaal Section Head Toxicology

3. LEAD QUALITY ASSURANCE STATEMENT

NOTOX B.V., 's-Hertogenbosch, The Netherlands

This report was inspected by the NOTOX Quality Assurance Unit to confirm that the methods and results accurately and completely reflect the raw data.

The dates of Quality Assurance inspections are given below. During the on-site process inspections procedures applicable to this type of study were inspected.

The reporting date is the date of reporting to the Study Director. The QAU report was then forwarded to the Test Facility Management.

Type of inspections	Phase / Section	Start Inspection date(s)	End Inspection date(s)	Reporting date
Protocol (Study)		DD\MMM\JJ	DD/MMM/JJ	DD\MMM\JJ
On-site (Process)		DD\MMM\JJ	DD\MMM\JJ	DD\MMM\JJ
On-site (Study)		DD/MMM/JJ	DD/MMM/JJ	DD/MMM/JJ
Report (Study)		DD\MMM\JJ	DD\MMM\JJ	DD\MMM\JJ

The Quality Assurance programme for the delegated phase histopathology was performed by the Quality Assurance appointed by the test site management and a Quality Assurance statement is included in Appendix 4 of this report.

Head of Quality Assurance C.J. Mitchell B.Sc.

Date:

4. SUMMARY

Combined repeated dose toxicity study with reproduction / developmental toxicity screening test with Dytek® DCH-99 administered by oral gavage in Wistar rats.

The purpose of this study was to evaluate the potential toxic effects of Dytek® DCH-99 when administered to rats for a minimum of 28 days and to evaluate the potential of the test substance to affect male and female reproductive performance such as gonadal function, mating behaviour, conception, parturition and early postnatal development.

The study was based on the following guideline:

Organisation of Economic Co-operation and Development Guidelines (OECD) for testing of Chemicals Guideline 422, Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test, March 1996.

After acclimatisation, four groups of ten male and ten female Wistar rats were exposed by oral gavage to the test substance at 0, 50, 150 and 500 mg/kg/day.

Males were exposed for 31 days, i.e. 2 weeks prior to mating, during mating, and up to termination. Females were exposed for 42 to 45 days, i.e. during 2 weeks prior to mating, during mating, during post-coitum, and during at least 3 days of lactation.

The following parameters were evaluated: clinical signs, functional observations, body weights, food consumption, reproduction processes, observations offspring, clinical pathology, macroscopy, organ weights, and histopathology. Chemical analyses of formulations were conducted once during the study to assess accuracy, homogeneity and stability.

RESULTS

Accuracy, homogeneity and stability of formulations were demonstrated by analyses.

Parental toxicity

No treatment related mortality occurred during the study period.

Slight to moderate salivation was noted in all males and females treated at 500 mg/kg. Furthermore, incidentally rales were noted in two males at 500 mg/kg and piloerection was noted in one female at 500 mg/kg at the end of treatment.

At 500 mg/kg, reduced body weight gain was noted in males during the treatment period and in females on Days 14 to 20 *post-coitum* and during lactation (not always statistically significant). Furthermore, at 500 mg/kg food consumption before or after allowance for body weight was reduced during lactation in females (statistically not significant).

Hearing ability, pupillary reflex, static righting reflex and grip strength were normal in all animals. The motor activity test showed an increase in activity at the low sensor for females at 500 mg/kg, which might be due to hyperactivity of the dam and/or pups.

At 500 mg/kg, a treatment related decrease in eosinophils was noted in males and females. Furthermore, treatment related effects were noted in clinical biochemistry (mainly in males). These findings comprised high alanine aminotransferase, aspartate aminotransferase activities (also noted in females at 500 mg/kg) and alkaline phosphatase activities and high cholesterol levels. Cholesterol levels were also increased in males treated at 150 mg/kg, but to a lesser extent. These findings at 500 mg/kg correlated with the macroscopic or microscopic effects on the liver, e.g. pale discolouration, increased liver/body weight ratios and hepatocellular vacuolation of the liver at a minimal or slight degree. In addition, calcium levels were increased in males and females at 500 mg/kg.

Besides microscopic changes in the liver, minor morphological alterations were noted in the lungs and adrenal glands:

- In the lungs, alveolar macrophage foci were increased in incidence and severity to moderate in females at 500 mg/kg. In the same organ lymphocytic alveolar inflammation was slightly increased in incidence in males and in incidence and severity to moderate in females. These findings correlated with the grey-white foci observed in females at 500 mg/kg.
- In the adrenal glands of males vacuolation in the zona fasiculata at minor degrees of severity was slightly increased in incidence at 500 mg/kg which was not statistically significant. However there was a positive trend.

The findings in liver, lung and adrenal glands were chiefly minor in nature and may be regarded as either slight increases in spontaneously occurring conditions or adaptive. As such they were considered to be indicators of slight toxicity to the test-item.

The organ weight changes in thymus and kidney correlated with the microscopic findings in these organs, e.g. atrophy and basophilia respectively. No corroborative findings were noted for the changes in weight of the heart, epididymides and brain. These changes were mild in nature and in absence of corroborative findings or a clear dose response relationship, the toxicological relevance of these changes remains unclear.

Reproductive toxicity

The gestation index was decreased in females at 500 mg/kg. No effect was noted on the duration of gestation and precoital time at 50, 150 or 500 mg/kg.

Of all animals, three females did not mate (one in the control group, one in the low dose group and one in the high dose group) and two females had implantations sites only (high dose group).

In males suspected of infertility, there were no findings in the reproductive organs of any of the animals which would account for poor reproductive performance. Further, the spermatogenic staging profiles were normal for all Group 1 and Group 4 males evaluated.

In females suspected of infertility, animal 75 (group 4) had endometrial inflammation. Animals 73 and 77 (group 4) had vaginal epithelial mucification (possible oestrus cycle disturbance).

Breeding toxicity

At 500 mg/kg, the average and total number of living pups per litter was reduced at the first litter check, (average of 6.9 pups per litter) when compared to concurrent controls (average of 16.0 pups per litter).

An increased incidence in postnatal loss was noted at 50, 150 and 500 mg/kg, resulting in a reduced viability index. No dose response relationship could be established between the treated groups.

Developmental toxicity

There was an increased incidence in missing and cannibalized pups, correlating with the increased post natal loss noted at 50, 150 and 500 mg/kg when compared to the concurrent controls.

In surviving pups no treatment related changes in developmental indices were noted. Furthermore, (mean) body weights were similar for the control and treated groups.

CONCLUSION

In conclusion, treatment with Dytek® DCH-99 by oral gavage in male and female Wistar rats at dose levels of 0, 50, 150 and 500 mg/kg/day revealed parental and reproduction toxicity at 500 mg/kg body weight/day. Breeding and developmental toxicity, e.g. increased incidence of postnatal loss, cannibalism and/or missing pups was observed at all treated groups. Although no dose response relationship could be established, the observed increase was considered to be related to treatment as no such increased incidence was noted in concurrent and historical control data.

Based on these findings, the parental and reproduction No Observed Adverse Effect Level (NOAEL) was established at 150 mg/kg body weight/day. No breeding NOAEL could be established.

Based on results in surviving pups, the developmental NOAEL was established at 500 mg/kg. However, the cause of the observed cannibalism was unclear and might be related to developmental effects, which will then affect the NOAEL.

5. INTRODUCTION

5.1. Preface

This is a multi-site study. The study was performed according to the OECD Consensus document Number 13 *The Application of the OECD Principles of GLP to the Organization and Management of Multi-Site studies.*

Information concerning the delegated phase is given in the applicable appendice.

Phase: Histopathology (see Appendix 4)

Sponsor INVISTA S.à.r.l.

4123 East 37th Street North,

WICHITA, KS 67220

USA

Study Monitor Mr. J.D. Jernigan, Ph.D. (until 18 December 2006)

Mrs. H.J. Blankinship (from 18 December 2006 onwards)

Study Director M.E.W. Beekhuijzen, M.Sc. (until 14 December 2006)

Ir. M.H.M. van Tuyl (from 14 December onwards)

NOTOX B.V.

Hambakenwetering 7 's-Hertogenbosch The Netherlands Tel: +31.73 640 6700 Fax: +31.73 640 6799

Email: Miranda.van.tuyl@notox.nl

Coordinating Biotechnician C. Dohmen (NOTOX B.V.)

Clinical Pathology J.E. van Kesteren (NOTOX B.V.)

Principal Scientist Analytical Chemistry Dr. Ir. E. Baltussen (NOTOX B.V.)

Histotechnology Ing T.A. Mijnders (NOTOX B.V.)

Necropsy J.H. van den Brink, DVM (NOTOX B.V.)

Lead QA C.J. Mitchell, B.Sc. (NOTOX B.V.):

christine.mitchell@notox.nl

Test facility Management W.J.A.M. Frieling DVM (NOTOX B.V.):

wilbert.frieling@notox.nl

Test Facility NOTOX B.V.

Hambakenwetering 7 5231 DD 's-Hertogenbosch

The Netherlands

5.2. Study schedule

Delivery of animals 03 January 2007

Experimental start date 03 January 2007 (allocation)

Start treatment 08 January 2007

Start mating 22 January 2007

Necropsy of males 08 February 2007

Delivery of litters 14, 15, 16, 17 and 18 February 2007

Necropsy of females and pups 19, 20, 21 and 22 February 2007

Experimental completion date 22 February 2007 (end in-life)

5.3. Project numbers

Two project numbers were used to collect online data. Eventually, all data was reported under NOTOX Project 479003.

Project number	Online data
481049	Parental animals: Clinical signs Functional observations Body weights and food consumption pre-mating Body weights post-mating/mating period males
479003	Clinical laboratory investigations Macroscopic findings and organ weights All other data

5.4. Aims of study

The purpose of this study was to evaluate the potential toxic effects of the test substance when administered to rats for a minimum of 28 days and to evaluate the potential of the test substance to affect male and female reproductive performance such as gonadal function, mating behaviour, conception, parturition and early postnatal development.

This study should provide part of a rational basis for toxicological risk assessment in man.

5.5. Guidelines

This protocol was reviewed and agreed by the Laboratory Animal Welfare Officer and the Ethical Committee of NOTOX (DEC NOTOX 06-104) as required by the Dutch Act on Animal Experimentation (February 1997).

The study procedures described in this protocol were based on the following guideline:

1) Organisation of Economic Co-operation and Development Guidelines (OECD) for testing of Chemicals Guideline 422, Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test, March 1996.

5.6. Storage and retention of records and materials

Records and materials pertaining to the study, including protocol, raw data, specimens (except specimens requiring refrigeration or freezing) and the final report, will be retained in the NOTOX archives for a period of at least 10 years after finalization of the report. After this period, the sponsor will be contacted to determine whether raw data and specimens should be returned to them, retained or destroyed on their behalf.

Those specimens requiring refrigeration or freezing will be retained by NOTOX for as long as the quality of the specimens permits evaluation but no longer than three months after finalization of the report.

NOTOX will retain a test substance sample until the expiry date, but no longer than 10 years after finalization of the report. After this period the sample will be destroyed.

Storage and retention of records and materials by the test sites for the delegated phases are described in the applicable appendices.

6. MATERIALS AND METHODS

6.1. Test substance

6.1.1. Test substance information (170676/A)

Identification Dytek® DCH-99

Structure NH₂ NH₂

Molecular formula C₆H₁₄N₂
Molecular weight 114.19

Description Clear light-yellow liquid

Batch VS52185886

Composition 99.55% 1,2-Diaminocyclohexane (CAS 694-83-7)

0.24% 2-Aminomethylcyclopentylamine

(CAS 21544-02-5)

0.08% Hexamethyleneimine (CAS 111-49-9) 0.00% Hexamethylenediamine (CAS 124-09-4) 0.07% 2-Methyl-1,5-pentamethylenediamine

(CAS 15520-10-2)

0.06% Water

Test substance storage At room temperature in the dark under nitrogen

Stability under storage conditions Stable

Expiry date 02 October 2007

6.1.2. Study specific test substance information

Specific Gravity 0.94
Solubility in vehicle (Water) Miscible

6.1.3. Test substance formulation

Vehicle Water (Milli-U) (Millipore Corporation, Bedford, USA)

Rationale for vehicle Based on trial formulations performed at NOTOX. Stability of test substance

in vehicle Stable for at least 5 hours when stored at room temperature (See

Appendix 3)

Method of formulation Formulations (w/w) were prepared daily within 4 hours prior to

dosing and were homogenised to a visually acceptable level. Adjustment was made for specific gravity of the test substance.

Storage conditions At ambient temperature.

6.1.4. Chemical analysis of dose preparations

Analyses were done according to validated method (NOTOX Project 479025) on the samples used on 08 January 2007 as specified below.

Group	Analysis (type of sample)			
1 2 3 4	$\begin{array}{l} \text{acc (M)} \\ \text{acc + hom + stab}_{t=0} \text{ (TMB), stab}_{t=5, \text{RT}} \text{ (S)} \\ \text{acc (M)} \\ \text{acc + hom + stab}_{t=0} \text{ (TMB), stab}_{t=5, \text{RT}} \text{ (S)} \end{array}$			

Duplicate samples were analysed

acc=accuracy, hom=homogeneity, stab=stability (hours), T=top, M=middle, B=bottom position of container S=stability sample taken at middle position of container

RT=room temperature

6.2. Test system

Test System	Rat: male and female Wistar rats Crl: (WI) BR (outbred, SPF-Quality). Untreated animals and virgin females were used at initiation of the study.
Rationale	This species and strain of rat has been recognized as appropriate for general and reproductive toxicity studies. NOTOX BV has general and reproductive historical data in this species from the same strain and source. This animal model has been proven to be susceptible to the effects of reproductive toxicants.
Source	Charles River Deutschland, Sulzfeld, Germany.
Age at start F ₀ -treatment	Approximately 10 weeks.
Number of F ₀ -animals	40 females and 40 males.
Acclimatisation F ₀	At least 5 days prior to start of treatment.
Health check F ₀	A health inspection was performed prior to commencement of treatment to ensure that the animals were in a good state of health.
Randomisation F ₀	Prior to commencement of treatment, by computer-generated random algorithm according to body weight, with all animals within ± 20% of the sex mean.
Identification F ₀	Earmark and tattoo.

Breeding procedures

Following a minimum of 14 days of exposure for the males and females, one female was cohabitated with one male of the same treatment group, avoiding sibling mating (Charles River supplied non-litter mates). Detection of mating was confirmed by evidence of sperm in the vaginal lavage or by the appearance of an intravaginal copulatory plug. This day was designated Day 0 post-coitum. Once mating has occurred, the males and females were separated.

The following females showed no evidence of mating after 14 days of mating: Females 43, 45 and 50 (Group 1), 51, 55 and 59 (Group 2) and females 73 and 79 (Group 4). These females were separated from their males after 14 days, but were placed back with the same males on Day 15 of mating until mating was detected. Mating continued until the day of necropsy of the males (Day 18 of mating). Females who showed no evidence of mating on the day before necropsy of the males, remained with their males overnight, and were kept without food.

Parturition Fo

The females were allowed to litter normally. Day 1 of lactation was defined as the day when a litter was found completed (i.e. membranes, placentas cleaned up, nest build up and/or feeding of pups started). Females that were littering were left undisturbed.

Lactation Fo

Deficiencies in maternal care, such as inadequate construction or cleaning of the nest, pups left scattered and cold, physical abuse of pups or apparently inadequate lactation or feeding, were recorded.

Identification offspring

The offspring was individually identified by means of intracutaneous injection of Indian ink.

6.3. Allocation

Group	Dose level	Number	of animals	Animals	numbers
,	mg/kg b.w./day	F ₀ males	F ₀ females	males	females
1	0	10	10	01-10	41-50
2	50	10	10	11-20	51-60
3	150	10	10	21-30	61-70
4	500	10	10	31-40	71-80

^{*} Dose levels following were based on a dose range finding study (see Appendix 5).

6.4. Animal husbandry

Animals were housed in Room 16.

Conditions

Animals were housed in a controlled environment, in which optimal conditions were considered to be approximately 15 air changes per hour, a temperature of $21 \pm 3^{\circ}$ C (actual range: $21.0 - 22.7^{\circ}$ C), a relative humidity of 30 - 70% (actual range: 42 - 60%) and 12 hours artificial light and 12 hours darkness per day (nightlight during the night period).

Accommodation

Pre-mating Animals were housed in groups of 5 animals/sex/cage in Macrolon cages (MIV

type, height 18 cm).

Mating Females were caged together with males on a one-to-one-basis in Macrolon

cages (MIII type, height 18 cm).

Post-mating Males were housed in groups of 5 animals/sex/cage in Macrolon cages (MIV

type, height 18 cm). Females will be individually housed in Macrolon cages

(MIII type, height 18 cm).

Lactation Offspring was kept with the dam until termination.

General Sterilised sawdust as bedding material (Litalabo, S.P.P.S., Argenteuil, France)

and paper as cage-enrichment (Enviro-dri, Wm. Lillico & Son (Wonham Mill Ltd), Surrey, United Kingdom) were supplied. Certificates of analysis were examined and then retained in the NOTOX archives. During overnight activity monitoring, animals were housed individually in Macrolon cages (MIII type; height 15 cm) with sterilised sawdust as bedding material. No cage-enrichment

was provided during overnight activity monitoring.

Diet

Free access to pelleted rodent diet (SM R/M-Z from SSNIFF® Spezialdiäten GmbH, Soest, Germany). Each batch was analysed for nutrients and contaminants are analysed on a regular basis. Results were examined and archived.

Water

Free access to tap-water. Certificates of analysis (performed quarterly) were examined and archived.

Analysis of bedding, paper, diet and water did not reveal any findings that were considered to have affected study integrity.

6.5. Treatment

6.5.1. Parental animals

Method Plastic feeding tube.

Frequency Once daily for 7 days per week, approximately the same time each

day with a maximum of 4 hours difference between the earliest and latest dose. Animals were dosed up to the day prior to scheduled

necropsy.

Exposure period The males and females were exposed for at least 14 days prior to

mating, during mating, and up to the day prior to necropsy.

Exposure period was at least until the minimum total dosing period

of 28 days was completed.

Dose volume 20 ml/kg body weight. Actual dose volumes were calculated

according to the latest body weight.

6.5.2. Offspring

Offspring was not treated.

6.6. Observations

6.6.1. Parental animals

The following animals were selected by the study director for functional observations, clinical laboratory investigations, macroscopic examination and determination of organ weights.

Group		Animals numbers								
	Males (n=5) Fen						males (n	=5)		
1	1	2	4	6	7	42	44	45	47	48
2	12	, 13	14	16	17	52	53	54	58	59
3	21	22	23	24	25	62	63	64	66	70
4	31	32	34	35	36	71	72	74	78	80

Mortality / Viability

At least twice daily.

Clinical signs

At least once daily, detailed clinical observations were made in all animals. Once prior to start of treatment and at weekly intervals this was also performed outside the home cage in a standard arena. Arena observations were not performed when the animals were mating, or housed individually. The time of onset, degree and duration was recorded. All symptoms were recorded and graded according to fixed scales:

Maximum grade 1: grade 0 = absent, grade 1 = present Maximum grade 3 or 4: grade 1 = slight, grade 2 = moderate, grade 3 = severe, grade 4 = very severe

Cage debris of pregnant females was examined to detect abortion or premature birth, if applicable. Signs of difficult or prolonged parturition were recorded, if applicable.

Functional Observations

The following tests were performed in 5 males and 5 females, randomly selected from each group:

- hearing ability, pupillary reflex, static righting reflex and grip strength (Score 0 = normal/present, score 1 = abnormal/absent).
- motor activity test (recording period: 12 hours during overnight for individual animals, using a computerised monitoring system, Pearson Technical Services, Debenham, Stowmarket, England).

During the motor activity test, males were caged individually and females were caged with their offspring.

The assigned males were tested during week 4 of treatment and the assigned females were tested during lactation (all before blood sampling).

In order to avoid hypothermia of pups, dams were removed from the pups for not more than 30-40 minutes. Dytek® DCH-99

Body weights Males and females were weighed on the first day of exposure and

weekly thereafter. Mated females were weighed on Days 0, 4, 7, 11, 14, 17 and 20 *post-coitum*, and on Days 1 and 4 of lactation.

Food consumption Weekly, for males and females. Food consumption was not

recorded during the breeding period. Food consumption of mated females was measured on Days 0, 4, 7, 11, 14, 17 and 20 post-

coitum and after delivery on Days 1 and 4 of lactation.

Water consumption Subjective appraisal was maintained during the study, but no

quantitative investigation introduced as no effect was suspected.

Reproduction processes Male number paired with, mating date, confirmation of pregnancy,

and delivery day was recorded.

6.6.2. Offspring

Each litter was examined to determine the following, if practically possible:

Mortality / Viability The numbers of live and dead pups at the First Litter Check (=

check at Day 1 of lactation) and daily thereafter were determined. If possible, defects or cause of death were evaluated. Animals showing pain, distress or discomfort, which is considered not transient in nature or is likely to become more severe, were sacrificed for humane reasons based on OECD guidance document on humane endpoints (ENV/JM/MONO/ 2000/7).

Clinical signs At least once daily, detailed clinical observations were made in all

animals.

Body weights Live pups were weighed on Days 1 and 4 of lactation.

Sex Was determined for of all pups on Days 1 and 4 of lactation (by

assessment of the ano-genital distance).

6.7. Clinical laboratory investigations

Blood samples were collected from 5 males and 5 females randomly selected from each group under iso-flurane (Abbott Laboratories Ltd., Zwolle, The Netherlands) anaesthesia immediately prior to scheduled *post mortem* examination, between 7.00 and 10.30 a.m. The animals were fasted overnight (with a maximum of 20 hours) before blood sampling, but water was provided. Blood samples were drawn from the retro-orbital sinus and collected into tubes (Greiner Bio-One, Bad Haller, Austria) prepared with EDTA for haematological parameters (0.5 ml), with citrate for clotting tests (0.9 ml) and Li-heparin treated tubes for clinical biochemistry parameters (0.5 ml). The following parameters were determined:

Haematology a White blood cells WBC 109/I Differential leucocyte count neutrophils, lymphocytes, monocytes, eosinophils, basophils %WBC Red blood cells 1012/I Reticulocytes %RBC Red blood cell distribution width RDW %RBC Red blood cell distribution width RDW % Haemoglobin mmol/I //I Haemoglobin MCV fl Mean corpuscular volume MCV fl Mean corpuscular haemoglobin MCHC mmol/I Mean corpuscular haemoglobin MCHC mmol/I Mean corpuscular haemoglobin MCHC mmol/I Concentration Platelets 109/I Pottentration PT s Activated Partial thromboplastin time PT s Clinical Biochemistry C ALAT U/I Alanine aminotransferase ALAT U/I Alanine aminotransferase ALAT U/I Alaliane phosphatase ALP U/I Total Protein Alp Mmol/I Albumin g/I <th>Parameter</th> <th>Abbreviation</th> <th>Unit</th>	Parameter	Abbreviation	Unit
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neutrophils, lymphocytes, monocytes, eosinophils, basophils Red blood cells Reticulocytes Red blood cell distribution width Remoglobin Haematocrit Mean corpuscular volume MCV Mean corpuscular haemoglobin MCH Mean corpuscular haemoglobin MCHC Mean corpuscular haemoglobin MCHC Mean corpuscular haemoglobin MCHC Mean corpuscular haemoglobin MCHC Clotting Potential Prothrombin time PT S Activated Partial thromboplastin time APTT S Clinical Biochemistry Alanine aminotransferase ALAT Aspartate aminotransferase ALAT Alkaline phosphatase ALP U/I Total Protein Albumin Total Bilirubin Urea MCHC MCHC MMOI/I Urea MALAT M/I ALP M/I Creatinine Glucose Mmol/I Cholesterol Sodium MCHC MCHC MMOI/I MICH MCHC MMOI/I MICH MCHC MMOI/I MICH MICH MICH MICH MICH MICH MICH MI		WBC	10 ⁹ /I
Red blood cells Reticulocytes Red blood cell distribution width Haemoglobin Haematocrit Mean corpuscular volume Mean corpuscular haemoglobin Mean corpuscular hae	neutrophils, lymphocytes, monocytes,		%WBC
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Glucose mmol/I Cholesterol mmol/I Sodium mmol/I Potassium mmol/I Chloride mmol/I Calcium mmol/I	••••		
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Potassium mmol/l Chloride mmol/l Calcium mmol/l	Cholesterol		mmol/l
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Calcium mmol/I			
Inorganic Phosphate Inorg. Phos mmol/l		Lancas Di	
	Inorganic Phosphate	inorg. Phos	mmoi/i

^a Instrumentation: ADVIA 120 (Bayer Diagnostics).

^bInstrumentation: STA Compact (Roche Diagnostics).

^c Instrumentation: Olympus AU400 (Goffin Meyvis).

6.8. Pathology Parental Animals

6.8.1. Termination

All animals were fasted overnight (with a maximum of 20 hours) prior to planned necropsy, but water was provided.

Females Which Deliver

On lactation Day 5 or shortly thereafter, the F_0 -females were anaesthetised using iso-flurane (Abbott Laboratories Ltd., Zwolle, The Netherlands) and subsequently exsanguinated. Organ weights were collected and tissues were preserved for possible future histopathological examination as described in the following paragraphs. The number of former implantation sites were counted and recorded. Corpora lutea were also counted and recorded. Gross lesions were saved for possible future histopathological examination.

Females Which Fail to Deliver

On post-mating Day 24-26 (females with evidence of mating) or post-cohabitation Day 24-26 (females without evidence of mating), the F_0 - females which had not delivered were anaesthetised using iso-flurane (Abbott Laboratories Ltd., Zwolle, The Netherlands) and subsequently exsanguinated. Organ weights were collected and tissues were preserved for possible future histopathological examination as described in the following paragraphs, with the following exceptions: Nongravid uteri were opened and placed in 10% ammonium sulfide solution as described by Salewski (Salewski, 1964) for the detection of implantation sites. If evidence of macroscopic implantations was present, the number of implantation sites and corpora lutea was recorded. Gross lesions were saved for possible future histopathological examination.

Females with Total Litter Loss

Females with total litter loss were anaesthetised using iso-flurane (Abbott Laboratories Ltd., Zwolle, The Netherlands) and subsequently exsanguinated within 24 hours of litter loss. Tissues were preserved for possible future histopathological examination as described in the following paragraphs. The number of former implantation sites and corpora lutea were recorded. Gross lesions were saved for possible future histopathological examination.

F₀-Deaths and Animals Euthanized in Extremis

Females not surviving until the scheduled euthanasia were necropsied as described in the following paragraphs. Animals not expected to survive to the next observation period (moribund) were anaesthetised using iso-flurane (Abbott Laboratories Ltd., Zwolle, The Netherlands) and subsequently exsanguinated. Organ weights were not collected. Tissues were preserved for possible future histopathological examination as described in the following paragraphs with the following exceptions: The number and location of implantation sites or scars was recorded. Corpora lutea (for animals dying or euthanized during gestation) was also counted and recorded. Recognizable fetuses were examined externally, euthanized by decapitation (if necessary) and preserved in 10% neutral-buffered formalin.

Termination Procedures for F₀-Males

Following completion of the mating period (a minimum of 28 days of dose administration), the F_0 -males were anaesthetised using iso-flurane (Abbott Laboratories Ltd., Zwolle, The Netherlands) and subsequently exsanguinated. Organ weights were collected and tissues were preserved for possible future histopathological examination as described in the following paragraphs.

6.8.2. Macroscopic examination

After sacrifice or death all parental animals were subjected to macroscopic examination of the cranial, thoracic and abdominal tissues and organs, with special attention being paid to the reproductive organs. Descriptions of all macroscopic abnormalities was recorded.

Samples of the following tissues and organs were collected and fixed in neutral phosphate buffered 4% formaldehyde solution (Klinipath, Duiven, The Netherlands):

From 5 selected animals/sex/group:

Identification marks: not processed

Adrenal glands

Aorta

Brain (cerebellum, mid-brain, cortex)

Caecum Cervix

Clitoral gland

Colon

Coagulation gland

Duodenum

Epididymides*

(Eyes* with optic nerve (if detectable) and

Harderian gland)

(Female mammary gland area)

(Femur including joint)

Heart Ileum Jejunum Kidneys

(Larynx) (Lacrimal gland, exorbital)

Liver

Lung, infused with formalin

Lymph nodes - mandibular, mesenteric

(Nasopharynx)

Oesophagus

Ovaries

Pancreas

Peyer's patches (jejunum, ileum) if detectable

Pituitary gland Preputial gland Prostate gland

Rectum

(Salivary glands - mandibular, sublingual)

Sciatic nerve Seminal vesicles (Skeletal muscle)

(Skin)

Spinal cord -cervical, midthoracic, lumbar

Spleen

Sternum with bone marrow

Stomach Testes* Thymus

Thyroid including parathyroid (if detectable)

(Tongue) Trachea Urinary bladder

Uterus Vagina

All gross lesions

From all remaining animals:

Cervix
Clitoral gland
Coagulation gland
Epididymides*

Preputial gland

Ovaries

Prostate gland Seminal vesicles

Testes* Uterus Vagina

All gross lesions

^{*} Fixed in modified Davidson's solution (prepared at NOTOX using Formaldehyde 37-40%, Ethanol, Acetic acid (glacial)(all Merck, Darmstadt, Germany) and Milli-Ro water (Millipore Corporation, Bedford, USA)) and transferred to formalin after fixation for at least 24 hours.

Tissues/organs mentioned in parentheses were not examined by the pathologist, since no signs of toxicity were noted at macroscopic examination.

6.8.3. Organ weights

The following organ weights (and terminal body weight) was recorded:

From 5 selected animals/sex/group

Adrenal glands

Liver

Brain

Spleen

Epididymides

Testes

Heart

Thymus

Kidneys

From all remaining males:

Epididymides

Testes

6.8.4. Histotechnology

All organ and tissue samples, as defined under Histopathology (following), were processed, embedded and cut at a thickness of 2-4 micrometers and stained with haematoxylin and eosin (Klinipath, Duiven, The Netherlands).

Of the selected 5 males/group of the control and high dose group, additional slides of the testes were prepared to examine staging of spermatogenesis. The testes was processed, sectioned at 3-4 microns, and stained with PAS/haematoxylin.

6.8.5. Histopathology

The following slides were examined by a pathologist:

- The preserved organs and tissues of the selected animals of Groups 1 and 4.
- The additional slides of the testes of the selected 5 males/group of Groups 1 and 4 to examine staging of spermatogenesis
- all gross lesions of all animals (all dose groups)
- The reproductive organs (cervix, coagulation gland, epididymis, ovaries, prostate gland, seminal vesicles, testis, uterus, and vagina) of all animals suspected of infertility (e.g. those that failed to mate, conceive, sire or deliver healthy offspring). These animals include:
 - Group 1: Male 10 and Female 50.
 - Group 2: Males 11, 15 and 20 and Females 51, 55 and 60.
 - Group 4: Males 33, 35, 37 and 39 and Females 73, 75, 77 and 79.

On detection of possible treatment-related changes in the organs of any animal in the high dose group, histological examination was extended to lungs, thymus, liver, kidneys (all males and females) and adrenals (males only) of five selected animals of Groups 2 and 3.

All abnormalities were described and included in the report. An attempt was made to correlate gross observations with microscopic findings.

For further details, see Appendix 4.

6.9. Pathology Offspring

6.9.1. Termination

Pups were killed by decapitation on Day 4 of lactation or shortly thereafter.

6.9.2. Macroscopic examination

All offspring was sexed and externally examined if practically possible. The stomach was examined for the presence of milk. Descriptions of all macroscopic abnormalities was recorded. If possible, defects or cause of death were evaluated. Any abnormal pup, organ or tissue was preserved in neutral phosphate buffered 4% formaldehyde solution, for possible further examination.

6.10. Calculations

For each dose group reproduction parameters were expressed in two ways:

- As a mean (with standard deviation) of the number observed for each litter
- Relative to a second parameter and calculated on a total group basis

For each group the following calculations were performed:

Percentage mating	Number of females mated x 100 Number of females paired
Fertility index	Number of pregnant females x 100 Number of females paired
Conception rate	Number of pregnant females x 100 Number of females mated
Gestation index	Number of females bearing live pups x 100 Number of pregnant females
Duration of gestation	Number of days between confirmation of mating and the beginning of parturition
Percentage live males at First Litter Check	Number of live male pups at First Litter Check x 100 Number of live pups at First Litter Check
Percentage live females at First Litter Check	Number of live female pups at First Litter Check x 100 Number of live pups at First Litter Check
Percentage of postnatal loss Days 0-4 post partum	Number of dead pups on Day 4 post partum x 100 Number of live pups at First Litter Check
Viability index	Number of live pups on Day 4 post partum x 100 Number of pups born alive

6.11. Electronic data capture

Observations/measurements in the study were recorded electronically using the following programme(s):

- REES version 1.5 (REES Scientific, Trenton, NJ, USA): Environmental monitoring.
- TOXDATA version 8.0 (NOTOX B.V., 's-Hertogenbosch, The Netherlands): Mortality / Clinical signs / Body weights / Food consumption / Reproduction processes / Observations offspring / Organ weights.
- Advia 120 Version V.3.1.8.0.MS (Bayer Diagnostics, Mijdrecht, The Netherlands): Haematology.
- Sta Compact version 1.06.06 (Stago Instruments, Gennevilliers, France): Clotting parameters
- Olympus AU 400 version 6 (Goffin-Meyvis, Etten-Leur, The Netherlands): Clinical laboratory investigations.
- MAMS version 6.2 (Pearson Technical Services, Suffolk, Great Britain): Motor activity measurement.

System control, data acquisition and data processing for analytical chemistry was performed using the following programme:

- Empower version 5.00 (Waters, Milford, MA, USA).

6.12. Interpretation

The following statistical methods were used to analyse the data:

- If the variables could be assumed to follow a normal distribution, the Dunnett-test (many-to-one t-test) based on a pooled variance estimate were applied for the comparison of the treated groups and the control groups for each sex (Ref. 1).
- The Steel-test (many-to-one rank test) was applied instead of the Dunnett-test if the data could not assumed to follow a normal distribution (Ref. 2).
- The Fisher-exact test was applied to frequency data (Ref. 3).

All tests were two-sided and in all cases p < 0.05 was accepted as the lowest level of significance.

Group means were calculated for continuous data and medians were calculated for discrete data (scores) in the summary tables. Test statistics were calculated on the basis of exact values for means and pooled variances. Individual values, means and standard deviations may have been rounded off before printing. Therefore, two groups may display the same printed means for a given parameter, yet display different test statistics values.

6.13. List of deviations

6.13.1. List of protocol deviations

- Females 50 (Group 1), 51 and 55 (Group 2) and 73 (Group 4) which had shown no evidence of mating were anaesthetized using iso-flurane and subsequently exsanguinated on post-cohabitation Day 14, instead of post-cohabitation Day 24-26. These animals were erroneously removed from the study together with females with evidence of mating, which had not delivered on post-mating Day 24-26. Females 50, 51 and 73 were not mated, but Female 55 showed normally developing implantations, e.g. 6 implantations left and 7 right, with sizes between 2.3 and 2.6 cm. Evaluation: As a result, only information on breeding data and pup development from animal 55 is missing. As sufficient data is available to evaluate the effects in Group 2, the study integrity was not affected.
- On 19 February no body weights were measured in the mating phase. These weights were determined on 20 February.
 Evaluation: Body weight was determined weekly, a deviation of 1 day does not affect the study integrity.
- On 17 February no food consumption was measured in the lactation phase. These weights were determined on 18 February
 Evaluation: Food consumption was determined one day later. This provides sufficient information for evaluation of the results.
- Mating of animals 43, 45, 59 and 79 was not detected (no sperm in vaginal lavage and no copulation plug noted). Therefore, from mating until lactation no food consumption was determined for these animals and body weights were determined weekly, instead of on Days 0, 4, 7, 11, 14, 17 and 20 post-coitum.
 Evaluation: From all groups sufficient information is available to evaluate the effects on food consumption and body weights during post-coitum.
- No vaginal wash was performed for animal 43 during mating phase on one day during the study period (27 January 2007).

 Evaluation: Looking back at the data, the animal had mated on 24 January 2007. The vaginal wash on 27 January would not have resulted in relevant information.
- A few tissues were not available for histopathology. Reasons for this included that these tissues were not discernable at necropsy or trimming, or were erroneously not collected at necropsy. Tissues are listed in raw data and pathology report. Evaluation: Sufficient data was available for evaluation.

The study integrity was not adversely affected by the deviations.

6.13.2. List of standard operating procedure deviations

Any deviations from standard operating procedures were evaluated and filed in the study file. There were no deviations from standard operating procedures that affected the integrity of the study.

7. RESULTS

7.1. Analysis of Dose Preparations (see also Appendix 3)

The concentrations analysed in the formulations of Groups 2, 3 and 4 were in agreement with target concentrations (i.e. between 93% and 105%).

Small test substance peaks were observed in one of the samples of the Group 1 formulation. The maximum contribution to the other samples was 0.15% based on area. This was due to carry-over in the analytical system. In the second sample of the Group 1 formulation no test substance peaks were observed. Therefore, it was concluded that Group 1 did not contain any test substance.

The formulations of Group 2 and Group 4 were homogeneous (2.5% and 3.3% relative standard deviation, respectively).

Analysis of Group 2 and Group 4 formulations after 5 hours of storage at room temperature yielded a relative difference of –2.5% and –1.5%, respectively. Therefore, the samples were considered stable at room temperature for at least at 5 hours.

7.2. Observations

7.2.1. Mortality

No treatment related mortality occurred during the study period.

Two females were sacrificed before the end of the study period. One animal treated at 50 mg/kg (Female 60) was sacrificed as the animal was cannibalizing the pups on Day 1 of lactation and one female at 500 mg/kg (Female 79) was sacrificed due to total litter loss on Day 2 of lactation. This animal had five pups, three pups were found dead on Day 1 of lactation, and two other pups were found dead on Day 2 of lactation.

7.2.2. Clinical Signs

Slight to moderate salivation was noted in all males and females treated at 500 mg/kg. Furthermore, incidentally rales were noted in two males at 500 mg/kg (Males 37 and 38) and piloerection was noted in one female at 500 mg/kg (Female 79) at the end of treatment.

Yellow discolouration of the urine was noted in all animals of Groups 2, 3 and 4 in a dose dependant manner.

Other clinical signs (slight salivation, scabs, chromodacryorrhoea, broken tail apex, diarrhoea and alopecia) were considered to be unrelated to treatment.

7.2.3. Body Weights:

Slightly reduced body weight and body weight gain was noted in males treated at 500 mg/kg during the complete study period (not always statistically significant). Reduced body weight and body weight gain was also noted in females treated at 500 mg/kg on Days 14 to 20 *post-coitum* and during lactation (not always statistically significant).

7.2.4. Food Consumption

Food consumption before or after allowance for body weight was reduced during lactation in females treated at 500 mg/kg (statistically not significant).

Other changes in food consumption were considered to be of no toxicological relevance.

7.2.5. Functional observations

Hearing ability, pupillary reflex, static righting reflex and grip strength were normal in all animals.

The motor activity test showed an increase in activity at the low sensor for females at 500 mg/kg. No other effects were noted in the motor activity test.

7.3. Clinical Laboratory Investigations

7.3.1. Haematology

A decrease in relative number of eosinophils was noted in males and females at 500 mg/kg.

Furthermore, a slight increase in red blood cell distribution width was noted in males at 500 mg/kg. However as no corroborative findings were noted in related parameters this finding was considered to be of no toxicological relevance.

Other findings achieving statistical significance (increased APTT in males at 50 and 150 mg/kg) were considered to be of no toxicological relevance in absence of a dose response relationship.

7.3.2. Clinical Biochemistry

Treatment related effects were mainly noted in males treated at 500 mg/kg. These findings comprised high alanine aminotransferase, aspartate aminotransferase (also noted in females at 500 mg/kg) and alkaline phosphatase activities and high cholesterol levels. Cholesterol levels were also increased in males treated at 150 mg/kg, but to a lesser extent.

Furthermore, calcium levels were increased in males and females at 500 mg/kg.

Other findings achieving statistical significance (decreased potassium levels in males at 50 mg/kg and increased albumin in females at 150 mg/kg) were considered to be of no toxicological relevance in absence of a dose response relationship.

7.4. Pathology

7.4.1. Macroscopic Examination

Pale discolouration of the liver was noted in five males treated at 500 mg/kg. Furthermore, many grey-white foci were found on the lungs of 4 females treated at 500 mg/kg.

One female at 50 mg/kg (Female 60) showed reddish contents in the stomach. This animal was sacrificed due to cannibalism of the pups.

One female at 50 mg/kg (Female 51) showed an enlarged cervix and uterus. The uterus was filled with fluid. These were signs of pseudo pregnancy and were considered to be unrelated to treatment.

Incidental findings among control and treated animals included an enlarged adrenal gland, pelvic dilation of the kidney, reduced size of the seminal vesicles, bent tail apex (correlating to the broken tail apex noted at clinical observations), alopecia, dark red discolouration of the mandibular lymph nodes and diaphragmatic hernia of the liver. These findings are occasionally seen among rats used in these types of study and/or in the absence of a dose response relationship they were considered changes of no toxicological significance.

7.4.2. Organ Weights

Liver/body weight ratios were increased with statistical significance for males treated at 500 mg/kg, which correlated with the findings at macroscopic and microscopic examination.

Decreased thymus weight and thymus/body weight ratios was noted in males and females treated at 500 mg/kg and correlated in some animals with the atrophy noted at microscopic examination. Furthermore, increased kidney weight was noted in females at 500 mg/kg, which correlated in some animals with the observed basophilia. However, as these microscopic findings were not considered to be related to treatment, the toxicological relevance of these organ weight changes remains unclear.

Other changes in organ weight comprised increased heart weight in males at 50, 150 and 500 mg/kg and females at 500 mg/kg, decreased epididymides weight in males at 500 mg/kg, increased relative brain weight in males at 500 mg/kg and increased adrenal weight in females at 150 and 500 mg/kg.

Other changes (increased liver weight in females at 50 mg/kg, decreased testes weight in males at 50 mg/kg) were considered to be of no toxicological relevance in absence of a dose response relationship.

7.4.3. Microscopic Examination (see also Appendix 4)

In the *lungs*, *alveolar macrophage foci* were noted at a minimal degree in one group 3 (150 mg/kg/day) and at a slight degree in one group 4 male animals. In females this finding was present at a slight degree of severity in one Group 1 (0 mg/kg/day, control) and at slight or moderate severity in five group 4 animals which was significantly increased (p <0.05). In the same organ *lymphocytic alveolar inflammation* was recorded at a slight degree in one group 1, minimal in one group 3 and also at a minimal degree in four group 4 males. In females, one animal in each of Groups 1, 2 (50 mg/kg/day) and 3 recorded this finding at a minimal degree and in Group 4, five animals at minimal to moderate degree. Again this was significantly increased in Group 4 females (p <0.05) and there was a positive trend (p <0.05) in males. These findings correlated to the gray-white foci observed in females at 500 mg/kg. At macroscopy, these findings were not observed in males.

In the *liver*, hepatocellular vacuolation at a minimal or slight degree was seen in four Group 4 males and in three group 4 females. This incidence did not reach statistical significance in either sex, however there was a positive trend (p at least <0.05) for both sexes. This finding was the microscopic correlate to the pale discolouration in this organ noted at necropsy.

Corticomedullary tubular basophilia at a minimal or slight degree was recorded in the **kidneys** of males: two in Group 1, one in Group 3 and two in Group 4; in females: one in Group 1 and three in Groups 2 and 4. This was neither significantly increased or positive in trend for either sex.

In the *adrenal glands* of males *vacuolation in the zona fasiculata* was seen at a minimal degree in two group one, two group 2, slight degree in one group 3 and at minimal or slight degree in four group 4 animals. This slight increase in group 4 was not significant, however again there was a positive trend (p <0.05).

Lymphoid atrophy – involution of the **thymus** was recorded in males: at minimal degree one group 1, slight in one group 3 and slight in two group 4 animals; in females: at minimal to moderate in four group 1, minimal in one group 3 and slight or moderate in three group 4 animals. This was neither significantly increased or positive in trend for either sex.

In males suspected of infertility, there were no findings in the reproductive organs of any of the animals which would account for poor reproductive performance. The spermatogenic staging profiles were normal for all group 1 and group 4 males evaluated.

In females suspected of infertility, animal 75 (group 4) had endometrial inflammation. Animals 73 and 77 (group 4) had vaginal epithelial mucification (possible oestrus cycle disturbance). In animals 50 (control), 60 (Group 2) and 79 (Group 4), there were no findings to account for infertility. Animal 51 (group 2) exhibited endometrial squamous metaplasia and animal 55 (group 2) had a deciduoma. As no similar findings were noted at the mid or high dose group, the toxicological relevance of these findings was doubted.

The remainder of the recorded microscopic findings were within the range of background pathology encountered in Wistar rats of this age and occurred at similar incidences and severity in both control and treated rats.

7.5. Reproduction

A decrease in gestation index was noted in females at 500 mg/kg.

No effect was noted on the duration of gestation and precoital time at 50, 150 or 500 mg/kg.

Erroneously, one female treated at 50 mg/kg (Female 55) was sacrificed before the end of gestation. This female was found to be pregnant and showed 13 normally developing implantations (six in the left uterus horn and seven in the right uterus horn), with crown-rump lengths ranging from 2.3 to 2.6 cm. No mating date was available for this animal, e.g. no mating was detected by lavage or vaginal plug, therefore no record is available on which day of gestation this animal was sacrificed.

Reproduction parameters are described in tables I and II below:

Table I. Reproduction Data.

Number of females	Group 1 Control	Group 2 50 mg/kg	Group 3 150 mg/kg	Group 4 500 mg/kg
Paired	10	10	10	10
Mated	9	9	10	9
Non-pregnant	-	-	-	-
Implantations sites only	-	-	-	2
Pregnant	9	9	10	9
Number of females with living pups at first litter check	9	8*	10	7

^{*} Female 55 was pregnant with normally developing implantations, but was erroneously sacrificed before the end of gestation (see protocol deviations).

Table II. Fertility F₀-generation.

	Group 1 Control	Group 2 50 mg/kg	Group 3 150 mg/kg	Group 4 500 mg/kg
Percentage mating (Females mated / Females paired) * 100	90	90	100	90
Fertility index (Females achieving a pregnancy / Females paired) * 100	90	90	100	90
Conception rate (Females achieving a pregnancy / Females mated) * 100	100	100	100	100
Gestation index (Number of females with living pups at first litter check/ Number of females pregnant) * 100	100	88.9*	100	77.8

^{*} Female 55 was pregnant with normally developing implantations, but was erroneously sacrificed before the end of gestation (see protocol deviations).

7.6. Breeding Data

At the first litter check, the average and total number of living pups per litter was reduced at 500 mg/kg (average of 6.9 pups per litter) when compared to concurrent controls (average of 16.0 pups per litter).

Furthermore, an increased incidence in postnatal loss was noted at 50, 150 and 500 mg/kg, resulting in a reduced viability index. No dose response relationship could be established between the treated groups.

7.7. Pup Development

There was an increased incidence in missing and cannibalized pups, correlating with the increased post natal loss noted at 50, 150 and 500 mg/kg when compared to the concurrent controls. The increased incidence in postnatal loss might be caused by possible developmental effects.

(Mean) body weights were similar for the control and treated groups.

Incidental findings consisted of a small, pale or weak appearance, red spot or discolouration (neck, head, back, tail and/or tail apex), scab (hindleg, nose), wound (nose), blue discolouration abdomen and swelling of the head. Macroscopic examination of the pups revealed no milk in the stomach and a small appearance. No relationship with treatment was established for these observations or they were considered to be within the normal biological variation for rats of this age and strain.

8. DISCUSSION AND CONCLUSION

Dytek® DCH-99 was administered by daily oral gavage to male and female Wistar rats at dose levels of 0, 50, 150 and 500 mg/kg/day. The males were exposed for 2 weeks prior to mating, during mating, and up to termination (for 31 days). The females were exposed for 2 weeks prior to mating, during mating, during post-coitum, and at least 3 days of lactation (for 42 to 45 days).

Formulation analysis showed that the formulations were prepared accurately, were homogeneous and were stable for at least 5 hours at room temperature.

Parental toxicity

No treatment related mortality occurred during the study period.

Slight to moderate salivation was noted in all males and females treated at 500 mg/kg. Furthermore, incidentally rales were noted in two males at 500 mg/kg and piloerection was noted in one female at 500 mg/kg at the end of treatment.

Yellow discolouration of the urine was noted in all animals of Groups 2, 3 and 4 in a dose dependant manner. This could be due to excretion of the test compound or a metabolite in the urine. Without corroborative findings for clinical biochemistry parameters and as no macroscopic or microscopic abnormalities of the kidneys were observed, this finding was not considered toxicological relevant.

At 500 mg/kg, reduced body weight gain was noted in males during the treatment period and in females on Days 14 to 20 *post-coitum* and during lactation (not always statistically significant). Furthermore, at 500 mg/kg food consumption before or after allowance for body weight was reduced during lactation in females (statistically not significant).

Hearing ability, pupillary reflex, static righting reflex and grip strength were normal in all animals. The motor activity test showed an increase in activity at the low sensor for females at 500 mg/kg, which might be due to hyperactivity of the dam and/or pups.

At 500 mg/kg, a treatment related decrease in eosinophils was noted in males and females.

At 500 mg/kg, a treatment related decrease in eosinophils was noted in males and females. Furthermore, treatment related effects were noted in clinical biochemistry (mainly in males). These findings comprised high alanine aminotransferase, aspartate aminotransferase activities (also noted in females at 500 mg/kg) and alkaline phosphatase activities and high cholesterol levels. Cholesterol levels were also increased in males treated at 150 mg/kg, but to a lesser extent. These findings at 500 mg/kg correlated with the macroscopic or microscopic effects on the liver, e.g. pale discolouration, increased liver/body weight ratios and hepatocellular vacuolation of the liver at a minimal or slight degree. In addition, calcium levels were increased in males and females at 500 mg/kg.

Besides microscopic changes in the liver, minor treatment related morphological alterations were noted in the lungs and adrenal glands:

In the lungs, alveolar macrophage foci were increased in incidence and severity to moderate in females at 500 mg/kg. In the same organ lymphocytic alveolar inflammation was slightly increased in incidence in males and in incidence and severity to moderate in females. These findings correlated with the grey-white foci observed in females at 500 mg/kg.

In the adrenal glands of males vacuolation in the zona fasiculata at minor degrees of severity was slightly increased in incidence at 500 mg/kg which was not statistically significant. However there was a positive trend.

The findings in liver, lung and adrenal glands were chiefly minor in nature and may be regarded as either slight increases in spontaneously occurring conditions or adaptive. As such they were

considered to be indicators of slight toxicity to the test-item.

The organ weight changes in thymus and kidney correlated with the microscopic findings in these organs, e.g. atrophy and basophilia respectively. No corroborative findings were noted for the changes in weight of the heart, epididymides and brain. These changes were mild in nature and in absence of corroborative findings or a clear dose response relationship, the toxicological relevance of these changes remains unclear.

Reproductive toxicity

The gestation index was decreased in females at 500 mg/kg. No effect was noted on the duration of gestation and precoital time at 50, 150 or 500 mg/kg.

Of all animals, three females did not mate (one in the control group, one in the low dose group and one in the high dose group) and two females had implantations sites only (high dose group).

In males suspected of infertility, there were no findings in the reproductive organs of any of the animals which would account for poor reproductive performance. Further, the spermatogenic staging profiles were normal for all Group 1 and Group 4 males evaluated.

In females suspected of infertility, animal 75 (group 4) had endometrial inflammation. Animals 73 and 77 (group 4) had vaginal epithelial mucification (possible oestrus cycle disturbance).

Breeding toxicity

At 500 mg/kg, the average and total number of living pups per litter was reduced at the first litter check, (average of 6.9 pups per litter) when compared to concurrent controls (average of 16.0 pups per litter).

An increased incidence in postnatal loss (due to increased cannibalism) was noted at 50, 150 and 500 mg/kg, resulting in a reduced viability index. No dose response relationship could be established between the treated groups.

Developmental toxicity

There was an increased incidence in missing and cannibalized pups, correlating with the increased post natal loss noted at 50, 150 and 500 mg/kg when compared to the concurrent controls.

In surviving pups no treatment related changes in developmental indices were noted. Furthermore, (mean) body weights were similar for the control and treated groups.

CONCLUSION

In conclusion, treatment with Dytek® DCH-99 by oral gavage in male and female Wistar rats at dose levels of 0, 50, 150 and 500 mg/kg/day revealed parental and reproduction toxicity at 500 mg/kg body weight/day. Breeding and developmental toxicity, e.g. increased incidence of postnatal loss, cannibalism and/or missing pups was observed at all treated groups. Although no dose response relationship could be established, the observed increase was considered to be related to treatment as no such increased incidence was noted in concurrent and historical control data.

Based on these findings, the parental and reproduction No Observed Adverse Effect Level (NOAEL) was established at 150 mg/kg body weight/day. No breeding NOAEL could be established.

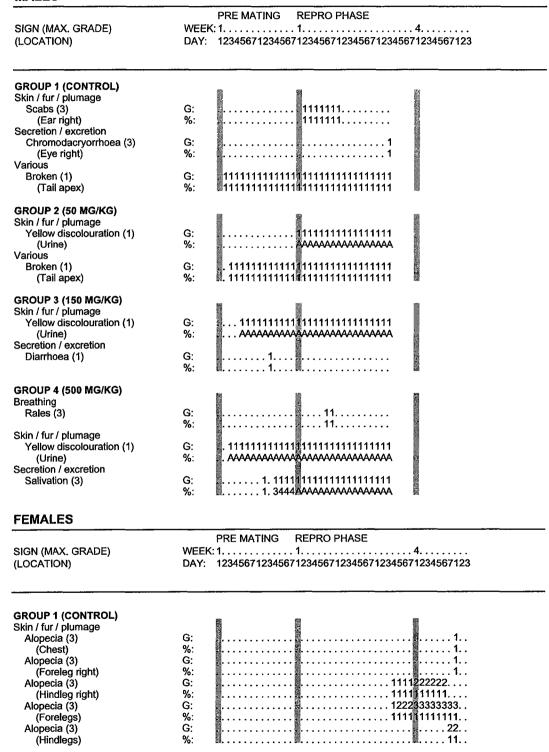
Based on results in surviving pups, the developmental NOAEL was established at 500 mg/kg. However, the cause of the observed cannibalism was unclear and might be related to developmental effects, which will then affect the NOAEL.

9. REFERENCES

- 1. Dunnett C.W., A Multiple Comparison Procedure for Comparing Several Treatments with a Control, J. Amer. Stat. Assoc. 50, 1096-1121 (1955).
- 2. Fisher R.A., Statistical Methods for Research Workers, Oliver and Boyd, Edinburgh (1950).
- 3. Miller R.G., Simultaneous Statistical Inference, Springer Verlag, New York (1981).
- 4. Salewski, E. Färbemethode zum makroskopischen Nachweis von Implantationsstellen am Uterus der Ratte. [Staining method for a macroscopic test for implantation sites in the uterus of the rat]. Naunyn Schmiedebergs Archiv für Experimentelle Pathologie und Pharmakologie, 247, 367 (1964).
- 5. Sokal R.R. and Rohlf F.J., Biometry, W.H. Freeman, San Francisco (1981).

APPENDIX 1 FIGURES AND SUMMARY TABLES

CLINICAL SIGNS SUMMARY MALES



G: Median value of the highest individual daily grades

^{%:} Percent of affected animals (0=less than 5%, 1=between 5% and 15%,..., A=more than 95%)

^{.:} Observation performed, sign not present

CLINICAL SIGNS SUMMARY FEMALES

SIGN (MAX. GRADE) (LOCATION)	PRE MATING REPRO PHASE WEEK:1
GROUP 2 (50 MG/KG) Skin / fur / plumage Alopecia (3) (Neck) Alopecia (3) (Thigh hind right) Scabs (3) (Neck) Yellow discolouration (1) (Urine) Secretion / excretion Salivation (3)	G:
GROUP 3 (150 MG/KG) Skin / fur / plumage Yellow discolouration (1) (Urine)	G:1111111111111111111111111111111111
GROUP 4 (500 MG/KG) Skin / fur / plumage Piloerection (1) Yellow discolouration (1) (Urine) Secretion / excretion Salivation (3)	G:

G: Median value of the highest individual daily grades %: Percent of affected animals (0=less than 5%, 1=between 5% and 15%,..., A=more than 95%) .: Observation performed, sign not present

BODY WEIGHTS (GRAM) SUMMARY MALES

		GROUP 1 CONTROL	GROUP 2 50 MG/KG	GROUP 3 150 MG/KG	GROUP 4 500 MG/KG
PRE MATING					
DAY 1	MEAN	335	335	338	339
WEEK 1	ST.DEV	11.7	9.5	9.0	11.0
	N	10	10	10	10
DAY 8	MEAN	372	366	372	360
WEEK 2	ST.DEV	14.7	12.2	11.5	14.4
	N	10	10	10	10
MATING PERIOD	A45 AA1	404	404	404	207
DAY 1 WEEK 1	MEAN ST.DEV	404 17.2	401 16.9	401 21.3	397 16.4
VVEEN	N ST.DEV	10	10.9	10	10
5446					
DAY 8 WEEK 2	MEAN ST.DEV	427 20.1	419 20.5	419 27.8	402 * 18.6
WEEK 2	N N	10	10	10	10.0
DAY 15	MEAN	448	438	442	430
WEEK 3	ST.DEV	26.0	22.1	32.3	17.6
***************************************	N	10	10	10	10
FEMALES					
		000104	0001100	000110.0	onoun 4
		GROUP 1 CONTROL	GROUP 2 50 MG/KG	GROUP 3 150 MG/KG	GROUP 4 500 MG/KG
	····				
PRE MATING					
DAY 1	MEAN	228	230	229	229
WEEK 1	ST.DEV	7.7	7.8	11.2	10.1
	N	10	10	10	10
DAY 8	MEAN	239	239	236	237
WEEK 2	ST.DEV	9.1	5.7	12.4	8.9
	N	10	10	10	10
MATING PERIOD				0.40	0.10
DAY 1	MEAN	247	246 13.9	246 15.5	246 10.0
WEEK 1	ST.DEV N	8.4 10	10	10.5	10.0
DAVO	• •			. •	
DAY 8 WEEK 2	MEAN ST.DEV	276 13.7	278 12,1		265 0.0
**	N N	3	3		2
DAY 15	MEAN	293	294		282
WEEK 3	ST.DEV	19.0	28.2		19.8
,,	N N	3	3		2
DAY 22	MEAN	346	348		316
WEEK 4	ST.DEV	55.4	61.8		29.0
	N	3	3		2
DAY 29	MEAN	292	332		296
WEEK 5	ST.DEV		41.0		
	N	1	2		1

^{*/**} Dunnett-test based on pooled variance significant at 5% (*) or 1% (**) level

BODY WEIGHTS (GRAM) SUMMARY FEMALES FO-GENERATION

		GROUP 1 CONTROL	GROUP 2 50 MG/KG	GROUP 3 150 MG/KG	GROUP 4 500 MG/KG
POST COITUM DAY 0	MEAN ST.DEV. N	250 13.3 7	251 10.4 7	248 14.8 10	251 9.4 6
DAY 4	MEAN	271	274	265	265
	ST.DEV.	9.5	15.7	15.5	15.9
	N	7	7	10	6
DAY 7	MEAN	282	283	273	278
	ST.DEV.	10.8	17.1	14.2	19.3
	N	7	7	10	6
DAY 11	MEAN	302	305	293	301
	ST.DEV.	14.0	18.2	21.9	21.7
	N	7	7	10	6
DAY 14	MEAN	321	325	312	308
	ST.DEV.	12.7	20.4	21.5	23.4
	N	7	7	10	6
DAY 17	MEAN	363	367	352	334 *
	ST.DEV.	16.1	25.2	22.3	19.6
	N	7	7	10	6
DAY 20	MEAN	418	418	409	368 **
	ST.DEV.	20.0	36.9	27.0	20.8
	N	7	7	10	6
LACTATION DAY 1	MEAN ST.DEV. N	306 15.6 9	324 26.2 8	301 24.4 10	296 18.2 7
DAY 4	MEAN	320	328	314	302
	ST.DEV.	11.7	19.1	22.1	16.6
	N	9	7	10	7

 $^{^*/^{**}}$ Dunnett-test based on pooled variance significant at 5% (*) or 1% (**) level Explanations for excluded data are listed in the tables of the individual values

BODY WEIGHT GAIN (%) SUMMARY MALES

		GROUP 1 CONTROL	GROUP 2 50 MG/KG	GROUP 3 150 MG/KG	GROUP 4 500 MG/KG
PRE MATING					
DAY 1	MEAN	0	0	0	0
WEEK 1	ST.DEV	0.0	0.0	0.0	0.0
	N	10	10	10	10
DAY 8	MEAN	11	9	10	6 **
WEEK 2	ST.DEV	2.0	2.2	3.7	1.8
	N	10	10	10	10
MATING PERIOD					
DAY 1	MEAN	21	19	19	17
WEEK 1	ST.DEV	4.0	3.4	6.1	3.6
	N	10	10	10	10
DAY 8	MEAN	28	25	24	19 **
WEEK 2	ST.DEV N	5.5 10	5.1 10	8.0 10	4.7
					10
DAY 15	MEAN	34	31	31	27
WEEK 3	ST.DEV N	6.8 10	5.3 10	9.5 10	4.8 10
	14	10	10	10	10
FEMALES					
		GROUP 1	GROUP 2	GROUP 3	GROUP 4
		CONTROL	50 MG/KG	150 MG/KG	500 MG/KG
PRE MATING					
DAY 1	MEAN	0	0	0	0
WEEK 1	ST.DEV	0.0	0.0	0.0	0.0
	N	10	10	10	10
DAY 8	MEAN	5	4	3	3
WEEK 2	ST.DEV	2.0	3.0	2.4	3.2
	N	10	10	10	10
MATINO DEDICE					
MATING PERIOD DAY 1	MEAN	8	7	8	8
WEEK 1	ST.DEV	4.0	4.6	2.7	5.0
***************************************	N	10	10	10	10
DAY 8	MEAN	21	21		16
WEEK 2	ST.DEV	3.9	2.0		7.2
	N	3	3		2
DAY 15	MEAN	29	28		24
WEEK 3	ST.DEV	7.7	12.3		16.4
	N	3	3		2
DAY 22	MEAN	52	52		39
WEEK 4	ST.DEV	24.4	27.0		21.3
	N	3	3		2
DAY 29	MEAN	28	44		24
WEEK 5	ST.DEV	4	12.1		
	N	1	2		1

^{*/**} Dunnett-test based on pooled variance significant at 5% (*) or 1% (**) level

BODY WEIGHT GAIN (%) SUMMARY FEMALES F0-GENERATION

		GROUP 1 CONTROL	GROUP 2 50 MG/KG	GROUP 3 150 MG/KG	GROUP 4 500 MG/KG
POST COITUM					-
DAY 0	MEAN	0	0	0	0
	ST.DEV.	0.0	0.0	0.0	0.0
	N	7	7	10	6
DAY 4	MEAN	9	9	7	6
	ST.DEV.	2.7	3.3	2.5	3.1
	N	7	7	10	6
DAY 7	MEAN	13	13	10	11
	ST.DEV.	3.0	3.8	3.6	4.7
	N	7	7	10	6
DAY 11	MEAN	21	22	18	20
	ST,DEV.	3.1	4.8	6.1	5.2
	N	7	7	10	6
DAY 14	MEAN	28	30	26	23
	ST.DEV.	3.2	5.1	5.1	5.5
	N	7	7	10	6
DAY 17	MEAN	45	46	42	33 **
	ST.DEV.	3.3	6.9	4.8	4.1
	N	7	7	10	6
DAY 20	MEAN	67	67	65	47 **
	ST.DEV.	4.8	11.0	7.3	4.2
	N	7	7	10	6
LACTATION					
DAY 1	MEAN	0	0	0	0
	ST.DEV.	0.0	0.0	0.0	0.0
	N	9	8	10	7
DAY 4	MEAN	5	3	4	2
	ST.DEV.	3.7	5.2	4.5	3.5
	N	9	7	10	7

^{*/**} Dunnett-test based on pooled variance significant at 5% (*) or 1% (**) level Explanations for excluded data are listed in the tables of the individual values

FOOD CONSUMPTION (G/ANIMAL/DAY) SUMMARY MALES

		GROUP 1 CONTROL	GROUP 2 50 MG/KG	GROUP 3 150 MG/KG	GROUP 4 500 MG/KG
PRE MATING	· · · · ·				
DAYS 1-8 WEEKS 1-2	MEAN ST.DEV N (CAGE)	29 0.4 2	28 0.3 2	28 0.4 2	28 0.3 2
DAYS 8-15 WEEKS 2-3	MEAN ST.DEV N (CAGE)	30 0.3 2	29 0.2 2	30 0.1 2	32 ** 0.6 2
MEAN OF MEANS OVER PRE MATI	-	29	29	29	30
FEMALES					
		GROUP 1 CONTROL	GROUP 2 50 MG/KG	GROUP 3 150 MG/KG	GROUP 4 500 MG/KG
PRE MATING					
DAYS 1-8 WEEKS 1-2	MEAN ST.DEV N (CAGE)	19 0.5 2	19 0.6 2	19 1.2 2	19 1.9 2
DAYS 8-15 WEEKS 2-3	MEAN ST.DEV N (CAGE)	20 0.1 2	20 0.6 2	20 0.8 2	22 1.3 2
MEAN OF MEANS OVER PRE MATI	-	20	20	20	21

^{*/**} Dunnett-test based on pooled variance significant at 5% (*) or 1% (**) level

FOOD CONSUMPTION (G/ANIMAL/DAY) SUMMARY FEMALES F0-GENERATION

		GROUP 1 CONTROL	GROUP 2 50 MG/KG	GROUP 3 150 MG/KG	GROUP 4 500 MG/KG
POST COITUM DAYS 0-4	MEAN	24	24	22	23
DA15 0-4	ST.DEV. N	2.4 2.4 7	3.6 7	1.6 10	3.2 6
DAYS 4-7	MEAN	23	23	23	25
	ST.DEV.	1.3	3.3	6.5	4.2
	N	7	7	10	6
DAYS 7-11	MEAN	25	26	24	25
	ST.DEV.	2.9	2.1	2.4	3.8
	N	7	7	10	6
DAYS 11-14	MEAN	28	32	26	30
	ST.DEV.	3.4	6.5	3.1	3.6
	N	7	7	10	6
DAYS 14-17	MEAN	33	32	29 *	31
	ST.DEV.	3.3	1.2	2.4	2.6
	N	7	7	10	6
DAYS 17-20	MEAN	32	34	30	31
	ST.DEV.	2.8	3.5	2.4	3.7
	N	7	7	10	6
MEAN OF MEANS		28	29	26	28
LACTATION DAYS 1-4	MEAN ST.DEV. N	35 5.6 9	40 12.3 7	42 18.5 10	23 5.6 7

^{*/**} Dunnett-test based on pooled variance significant at 5% (*) or 1% (**) level Explanations for excluded data are listed in the tables of the individual values

RELATIVE FOOD CONSUMPTION (G/KG BODY WEIGHT/DAY) SUMMARY MALES

		GROUP 1 CONTROL	GROUP 2 50 MG/KG	GROUP 3 150 MG/KG	GROUP 4 500 MG/KG
PRE MATING					
DAYS 1-8 WEEKS 1-2	MEAN ST.DEV N (CAGE)	78 0.3 2	76 0.0 2	76 0.8 2	79 2.3 2
DAYS 8-15 WEEKS 2-3	MEAN ST.DEV N (CAGE)	81 1.7 2	80 1.6 2	80 0.0 2	89 ** 0.2 2
MEAN OF MEANS OVER PRE MATING MEAN		79	78	78	84
FEMALES					
		GROUP 1 CONTROL	GROUP 2 50 MG/KG	GROUP 3 150 MG/KG	GROUP 4 500 MG/KG
PRE MATING					
DAYS 1-8 WEEKS 1-2	MEAN ST.DEV N (CAGE)	81 0.9 2	81 3.7 2	81 2.9 2	80 5.1 2
DAYS 8-15 WEEKS 2-3	MEAN ST.DEV N (CAGE)	83 1.7 2	84 3.7 2	85 1.3 2	93 * 2.1 2
MEAN OF MEANS					
OVER PRE MATIN	G MEAN	82	82	83	87

^{*/**} Dunnett-test based on pooled variance significant at 5% (*) or 1% (**) level

RELATIVE FOOD CONSUMPTION (G/KG BODY WEIGHT/DAY) SUMMARY FEMALES F0-GENERATION

		GROUP 1 CONTROL	GROUP 2 50 MG/KG	GROUP 3 150 MG/KG	GROUP 4 500 MG/KG
POST COITUM					
DAYS 0-4	MEAN	88	87	83	87
	ST.DEV.	7.4	8.5	5.3	8.9
	N	7	7	10	6
DAYS 4-7	MEAN	83	83	86	89
	ST.DEV.	4.2	7.2	26.5	9.6
	N	7	7	10	6
DAYS 7-11	MEAN	83	86	82	84
	ST.DEV.	7.9	7.3	4.7	8.0
	N	7	7	10	6
DAYS 11-14	MEAN	88	101	84	96
	ST.DEV.	9.4	23.3	5.1	7.2
	N	7	7	10	6
DAYS 14-17	MEAN	90	88	82	92
	ST.DEV.	9.4	4.8	6.5	6.6
	N	7	7	10	6
DAYS 17-20	MEAN	77	82	74	85
	ST.DEV.	4.6	7.1	5.1	6.9
	N	7	7	10	6
MEAN OF MEANS		85	88	82	89
LACTATION DAYS 1-4	MEAN ST.DEV. N	108 15.2 9	121 31.4 7	135 56.0 10	75 17.5 7

 $^{^*/^{**}}$ Dunnett-test based on pooled variance significant at 5% (*) or 1% (**) level Explanations for excluded data are listed in the tables of the individual values

FUNCTIONAL OBSERVATIONS SUMMARY MALES

		GROUP 1 CONTROL	GROUP 2 50 MG/KG	GROUP 3 150 MG/KG	GROUP 4 500 MG/KG
TREATMENT HEARING SCORE 0/1	MEDIAN N	0 5	0 5	0 5	0 5
PUPIL L SCORE 0/1	MEDIAN N	0 5	0 5	0 5	0 5
PUPIL R SCORE 0/1	MEDIAN N	0 5	0 5	0 5	0 5
STATIC R SCORE 0/1	MEDIAN N	0 5	0 5	0 5	0 5
GRIP SCORE 0/1	MEDIAN N	0 5	0 5	0 5	0 5
FEMALES					
		GROUP 1	GROUP 2	GROUP 3	GROUP 4

		GROUP 1 CONTROL	GROUP 2 50 MG/KG	GROUP 3 150 MG/KG	GROUP 4 500 MG/KG
TREATMENT HEARING SCORE 0/1	MEDIAN N	0 5	0 5	0 5	0 6
PUPIL L	MEDIAN	0	0	0	0
SCORE 0/1	N	5	5	5	6
PUPIL R	MEDIAN	0	0	0	0
SCORE 0/1	N	5	5	5	6
STATIC R	MEDIAN	0	0	0	0
SCORE 0/1	N	5	5	5	6
GRIP	MEDIAN	0	0	0	0
SCORE 0/1	N	5	5	5	6

Dytek® DCH-99 APPENDIX 1

MOTOR ACTIVITY MEASUREMENTS SUMMARY

MALES WEEK 4

		GROUP 1 CONTROL	GROUP 2 50 MG/KG	GROUP 3 150 MG/KG	GROUP 4 500 MG/KG
total high	MEAN	2048	1915	2868	2262
sensor count	ST.DEV	642	1306	487	370
	N	5	5	5	5
total low	MEAN	4589	4415	4802	5448
sensor count	ST.DEV	1342	714	685	1381
	N	5	5	5	5

FEMALES LACTATION

		GROUP 1 CONTROL	GROUP 2 50 MG/KG	GROUP 3 150 MG/KG	GROUP 4 500 MG/KG
total high	MEAN	3244	1078	1179	2288
sensor count	ST.DEV	5360	358	355	2404
	N	5	5	5	5
total low	MEAN	3961	4068	3549	7093 **
sensor count	ST.DEV	496	1483	833	1599
	N	5	5	5	5

^{*/**} Dunnett-test based on pooled variance significant at 5% (*) or 1% (**) level

HAEMATOLOGY SUMMARY MALES

		GROUP 1 CONTROL	GROUP 2 50 MG/KG	GROUP 3 150 MG/KG	GROUP 4 500 MG/KG
END OF TREATME WBC 10E9/I	MEAN ST.DEV	9.8 1.7 5	10.2 1.9 5	9.0 1.0 5	10.6 1.1 5
Neutrophils %WBC	MEAN ST.DEV N	17.3 6.1 5	13.1 2.4 5	13.0 1.0 5	17.4 6.3 5
Lymphocytes %WBC	MEAN ST.DEV N	76.8 7.2 5	83.3 2.5 5	82.4 2.0 5	78.4 6.4 5
Monocytes %WBC	MEAN ST.DEV N	3.9 1.4 5	2.1 0.6 5	2.9 1.2 5	3.5 2.1 5
Eosinophils %WBC	MEAN ST.DEV N	1.6 0.5 5	1.2 0.1 5	1.3 0.5 5	0.4 + 0.3 5
Basophils %WBC	MEAN ST.DEV N	0.4 0.3 5	0.5 0.1 5	0.4 0.1 5	0.3 0.2 5
Red blood cells 10E12/I	MEAN ST.DEV N	8.40 0.15 5	8.30 0.24 5	8.52 0.39 5	8.12 0.28 5
Reticulocytes %RBC	MEAN ST.DEV N	2.9 0.6 5	3.1 0.4 5	3.1 0.4 5	3.4 0.4 5
RDW %	MEAN ST.DEV N	11.8 0.4 5	12.6 0.6 5	12.7 0.7 5	13.0 * 0.7 5
Haemoglobin mmol/l	MEAN ST.DEV N	9.7 0.3 5	9.5 0.5 5	9.6 0.1 5	9.5 0.3 5
Haematocrit I/I	MEAN ST.DEV N	0.439 0.019 5	0.424 0.022 5	0.431 0.009 5	0.422 0.012 5
MCV fl	MEAN ST.DEV N	52.2 2.5 5	51.1 2.3 5	50.6 2.2 5	52.0 1.7 5
MCH ⁻ fmol	MEAN ST.DEV N	1.15 0.04 5	1.15 0.06 5	1.13 0.05 5	1.17 0.05 5
MCHC mmol/l	MEAN ST.DEV N	22.14 0.28 5	22.44 0.28 5	22.26 0.31 5	22.47 0.30 5
Platelets 10E9/I	MEAN ST.DEV N	901 215 5	1056 120 5	1025 88 5	981 245 5
PT s	MEAN ST.DEV N	18.2 0.8 5	17.5 0.6 5	18.0 0.6 5	18.0 0.8 5
APTT s	MEAN ST.DEV N	11.7 1.6 5	17.3 ** 1.2 5	15.7 * 3.0 5	15.0 2.6 5

^{+/++} Steel-test significant at 5% (+) or 1% (++) level
*/** Dunnett-test based on pooled variance significant at 5% (*) or 1% (**) level

HAEMATOLOGY SUMMARY FEMALES

		GROUP 1 CONTROL	GROUP 2 50 MG/KG	GROUP 3 150 MG/KG	GROUP 4 500 MG/KG
END OF TREATME WBC 10E9/I	MEAN ST.DEV	7.3 2.5 5	5.0 1.5 5	5.0 1.5 5	5.8 1.4 5
Neutrophils %WBC	MEAN ST.DEV N	19.2 4.1 5	21.5 5.5 5	23.1 5.1 5	27.5 12.1 5
Lymphocytes %WBC	MEAN ST.DEV N	77.4 4.0 5	74.6 6.3 5	73.3 5.7 5	68.9 12.4 5
Monocytes %WBC	MEAN ST.DEV N	2.2 0.5 5	2.7 1.4 5	2.6 0.7 5	3.0 0.6 5
Eosinophils %WBC	MEAN ST.DEV N	1.0 0.4 5	1.1 1.2 5	0.7 0.3 5	0.3 + 0.2 5
Basophils %WBC	MEAN ST.DEV N	0.3 0.1 5	0.1 0.2 5	0.2 0.1 5	0.3 0.1 5
Red blood cells 10E12/I	MEAN ST.DEV N	7.62 0.27 5	7.49 0.39 5	7.49 0.42 5	7.39 0.73 5
Reticulocytes %RBC	MEAN ST.DEV N	6.0 2.3 5	5.6 1.0 5	6.9 2.5 5	6.0 2.3 5
RDW %	MEAN ST.DEV N	15.0 1.7 5	16.1 1.6 5	15.5 1.7 5	15.3 1.9 5
Haemoglobin mmol/l	MEAN ST.DEV N	9.1 0.6 5	8.9 0.4 5	9.0 0.5 5	8.8 0.6 5
Haematocrit I/I	MEAN ST.DEV N	0.409 0.018 5	0.401 0.017 5	0.409 0.021 5	0.397 0.022 5
MCV fl	MEAN ST.DEV N	53.7 0.9 5	53.6 3.0 5	54.7 2.0 5	54.0 2.6 5
MCH fmol	MEAN ST.DEV N	1.20 0.04 5	1.20 0.06 5	1.20 0.03 5	1.20 0.05 5
MCHC mmol/l	MEAN ST.DEV N	22.34 0.49 5	22.33 0.42 5	21.88 0.35 5	22.25 0.50 5
Platelets 10E9/I	MEAN ST.DEV N	1342 196 5	1200 315 5	1439 385 5	1317 233 5
PT s	MEAN ST.DEV N	17.4 0.3 5	16.8 0.9 5	17.3 0.8 5	18.0 1.4 5
APTT s	MEAN ST.DEV N	18.0 1.4 5	16.8 3.5 5	16.6 2.7 5	17.5 3.7 5

^{+/++} Steel-test significant at 5% (+) or 1% (++) level */** Dunnett-test based on pooled variance significant at 5% (*) or 1% (**) level

CLINICAL BIOCHEMISTRY SUMMARY MALES

		GROUP 1	GROUP 2	GROUP 3	GROUP 4
		CONTROL	50 MG/KG	150 MG/KG	500 MG/KG
END OF TREATM ALAT U/I	ENT MEAN ST.DEV N	37.5 4.5 5	38.4 7.8 5	45.9 11.6 5	65.5 ** 3.0 5
ASAT U/I	MEAN ST.DEV N	73.9 5.9 5	71.7 4.8 5	78.8 6.7 5	96.5 ** 8.1 5
ALP U/I	MEAN ST.DEV N	103 25 5	111 7 5	113 11 5	149 ** 22 5
Total protein g/l	MEAN ST.DEV N	62.3 2.2 5	62.8 3.0 5	63.4 2.9 5	63.1 3.0 5
Albumin g/l	MEAN ST.DEV N	31.0 0.9 5	31.0 0.7 5	31.2 1.2 5	31.4 1.4 5
Total bilirubin umol/l	MEAN ST.DEV N	2.4 0.2 5	2.6 0.4 5	2.6 0.3 5	2.8 0.3 5
Urea mmol/l	MEAN ST.DEV N	6.2 0.6 5	5.8 0.9 5	6.0 1.1 5	6.9 0.4 5
Creatinine umol/I	MEAN ST.DEV N	39.0 2.2 5	38.5 0.8 5	37.5 1.8 5	39.0 2.0 5
Glucose mmol/l	MEAN ST.DEV N	8.06 0.66 5	8.72 1.12 5	8.35 1.59 5	9.00 1.17 5
Cholesterol mmol/l	MEAN ST.DEV N	1.52 0.23 5	1.88 0.34 5	2.04 ** 0.19 5	2.49 ** 0.17 5
Sodium mmol/l	MEAN ST.DEV N	142.4 0.7 5	142.6 1.1 5	141.5 0.8 5	141.7 0.6 5
Potassium mmol/l	MEAN ST.DEV N	4.26 0.25 5	3.77 ** 0.18 5	4.05 0.09 5	4.03 0.17 5
Chloride mmol/I	MEAN ST.DEV N	103 1 5	103 1 5	103 1 5	103 1 5
Calcium mmol/l	MEAN ST.DEV N	2.75 0.05 5	2.70 0.07 5	2.81 0.06 5	2.92 ** 0.07 5
inorg.Phos mmol/l	MEAN ST.DEV N	2.54 0.20 5	2.20 0.25 5	2.33 0.18 5	2.69 0.19 5

^{*/**} Dunnett-test based on pooled variance significant at 5% (*) or 1% (**) level

CLINICAL BIOCHEMISTRY SUMMARY FEMALES

		GROUP 1 CONTROL	GROUP 2 50 MG/KG	GROUP 3 150 MG/KG	GROUP 4 500 MG/KG
END OF TREATM	ENT				
ALAT U/I	MEAN ST.DEV N	58.1 5.7 5	57.9 12.7 5	50.6 4.1 5	65.0 12.8 5
ASAT U/I	MEAN ST.DEV N	75.2 7.3 5	74.3 12.9 5	71.7 7.3 5	96.0 * 11.5 5
ALP U/I	MEAN ST.DEV N	78 17 5	91 21 5	86 48 5	70 19 5
Total protein g/l	MEAN ST.DEV N	62.8 2.3 5	64.4 2.9 5	64.3 1.6 5	61.5 1.2 5
Albumin g/l	MEAN ST.DEV N	30.6 0.6 5	31.3 1.1 5	32.2 * 0.9 5	31.7 0.6 5
Total bilirubin umol/l	MEAN ST.DEV N	2.6 0.2 5	2.3 0.3 5	3.0 0.5 5	3.0 0.7 5
Urea mmol/l	MEAN ST.DEV N	7.5 0.5 5	7.3 1.0 5	6.5 1.4 5	7.0 0.5 5
Creatinine umol/l	MEAN ST.DEV N	42.9 2.5 5	42.3 4.2 5	43.9 1.8 5	42.0 2.0 5
Glucose mmol/l	MEAN ST.DEV N	7.54 1.15 5	7.04 1.16 5	7.40 1.32 5	7.04 0.45 5
Cholesterol mmol/l	MEAN ST.DEV N	1.55 0.13 5	1.56 0.38 5	1.42 0.32 5	1.27 0.29 5
Sodium mmol/I	MEAN ST.DEV N	137.8 1.1 5	138.3 1.5 5	137.6 1.4 5	137.2 1.3 5
Potassium mmol/I	MEAN ST.DEV N	3.78 0.27 5	3.66 0.65 5	3.31 0.39 5	3.85 0.12 5
Chloride mmol/l	MEAN ST.DEV N	100 1 5	99 1 5	98 2 5	100 1 5
Calcium mmol/i	MEAN ST.DEV N	2.58 0.06 5	2.58 0.05 5	2.63 0.08 5	2.73 ** 0.08 5
Inorg.Phos mmol/I	MEAN ST.DEV N	1.87 0.20 5	2.00 0.26 5	1.96 0.28 5	2.11 0.30 5

^{*/**} Dunnett-test based on pooled variance significant at 5% (*) or 1% (**) level

MACROSCOPIC FINDINGS SUMMARY MALES

	GROUP 1 CONTROL	GROUP 2 50 MG/KG	GROUP 3 150 MG/KG	GROUP 4 500 MG/KG
END OF TREATMENT			 .	
Animals examined	10	10	10	10
Animals without findings	8	8	9	5
Animals affected	2	2	1	5
Allillais allected	2	2	'	5
Liver				
Discolouration	0	0	0	5#
Kidneys		_	_	_
Pelvic dilation	1	0	0	0
Seminal vesicles	0	4	4	•
Reduced in size Bone	0	1	1	0
Tail apex: bent.	1	1	0	0
ran apex. Deric.	•	•	U	v
FEMALES				
	000UD 4	000100	0001100	00010
	GROUP 1	GROUP 2	GROUP 3	GROUP 4
	CONTROL	50 MG/KG	150 MG/KG	500 MG/KG
Animals examined Animals without findings		1 0		1
Animals affected		1		0
Stomach				
Contents:		1		0
END OF TREATMENT		_		
Animals examined	10	9	10	9
Animals without findings	8	6	9	4
Animals affected	2	3	1	5
Lungs				
Focus/foci	0	0	0	4#
Liver				
Diaphragmatic hernia	0	0	1	0
Uterus		_	_	_
Enlarged	0	1	0	0
Contains fluid	0	1	0	0
Cervix	•	1	0	0
Enlarged	0	1	U	U
Adrenal glands Enlarged	0	1	0	0
Mandibular I.node	v	•	Ü	•
Discolouration	2	0	0	1
Skin				
Alopecia	0	1	0	0

ORGAN WEIGHTS (GRAM) SUMMARY MALES

		GROUP 1 CONTROL	GROUP 2 50 MG/KG	GROUP 3 150 MG/KG	GROUP 4 500 MG/KG
END OF TREATME					,
BODY W. (GRAM)	MEAN ST.DEV N	424 24 10	416 24 10	416 33 10	403 15 10
BRAIN (GRAM)	MEAN ST.DEV N	2.04 0.10 5	2.14 0.07 5	2.09 0.11 5	2.09 0.03 5
łeart Gram)	MEAN ST.DEV N	1.263 0.077 5	1.322 0.070 5	1.348 0.133 5	1.416 * 0.032 5
.IVER GRAM)	MEAN ST.DEV N	11.47 1.18 5	10.42 0.36 5	10.93 1.53 5	12.46 0.59 5
HYMUS GRAM)	MEAN ST.DEV N	0.467 0.113 5	0.352 0.066 5	0.379 0.120 5	0.285 * 0.043 5
IDNEYS GRAM)	MEAN ST.DEV N	3.15 0.26 5	3.13 0.25 5	3.09 0.33 5	3.15 0.21 5
DRENALS GRAM)	MEAN ST.DEV N	0.067 0.014 5	0.070 0.011 5	0.070 0.009 5	0.078 0.010 5
PLEEN GRAM)	MEAN ST.DEV N	1.080 0.186 5	0.924 0.106 5	1.023 0.154 5	0.889 0.078 5
ESTES GRAM)	MEAN ST.DEV N	4.04 0.29 10	3.69 * 0.29 10	3.84 0.28 10	4.00 0.30 10
EPIDIDYMIDES GRAM)	MEAN ST.DEV N	1.250 0.122 10	1.227 0.095 10	1.169 0.051 10	1.036 ** 0.094 10

^{*/**} Dunnett-test based on pooled variance significant at 5% (*) or 1% (**) level

ORGAN/BODY WEIGHT RATIOS (%) SUMMARY MALES

	GROUP 1	GROUP 2	GROUP 3	GROUP 4
	CONTROL	50 MG/KG	150 MG/KG	500 MG/KG
MEAN	424	416	416	403
N N	10	24 10	33 10	15 10
MEAN	0.47	0.52	0.50	0.53 *
ST.DEV	0.02	0.03	0.05	0.02
N	5	5	5	5
MEAN	0.292	0.324 *	0.322 *	0.355 **
ST.DEV	0.017	0.023	0.011	0.017
N	5	5	5	5
MEAN	2.65	2.55	2.60	3.13 **
ST.DEV	0.16	0.10	0.18	0.23
N	5	5	5	5
MEAN	0.108	0.086	0.089	0.072 *
ST.DEV	0.023	0.018	0.022	0.011
N	5	5	5	5
MEAN	0.73	0.77	0.74	0.79
ST.DEV	0.06	0.06	0.05	0.04
N	5	5	5	5
MEAN	0.016	0.017	0.017	0.020
ST.DEV	0.003	0.002	0.003	0.002
N	5	5	5	5
MEAN	0.249	0.227	0.243	0.223
ST.DEV	0.038	0.031	0.018	0.015
N	5	5	5	5
MEAN	0.96	0.89	0.93	0.99
ST.DEV	0.09	0.08	0.07	0.06
N	10	10	10	10
MEAN	0.296	0.295	0.282	0.257 **
ST.DEV	0.036	0.025	0.016	0.023
N	10	10	10	10
	ST.DEV N MEAN ST.DEV	T MEAN 424 ST.DEV 24 N 10 MEAN 0.47 ST.DEV 0.02 N 5 MEAN 0.292 ST.DEV 0.017 N 5 MEAN 2.65 ST.DEV 0.16 N 5 MEAN 0.108 ST.DEV 0.023 N 5 MEAN 0.73 ST.DEV 0.06 N 5 MEAN 0.73 ST.DEV 0.06 N 5 MEAN 0.73 ST.DEV 0.006 N 5 MEAN 0.016 ST.DEV 0.003 N 5 MEAN 0.016 ST.DEV 0.003 N 5 MEAN 0.249 ST.DEV 0.038 N 5 MEAN 0.96 ST.DEV 0.09 N 10 MEAN 0.96 ST.DEV 0.09 N 10 MEAN 0.296 ST.DEV 0.036	T MEAN 424 416 ST.DEV 24 24 N 10 10 MEAN 0.47 0.52 ST.DEV 0.02 0.03 N 5 5 MEAN 0.292 0.324 * ST.DEV 0.017 0.023 N 5 5 MEAN 2.65 2.55 ST.DEV 0.16 0.10 N 5 5 MEAN 0.108 0.086 ST.DEV 0.023 0.018 N 5 5 MEAN 0.73 0.77 ST.DEV 0.06 0.06 N 5 5 MEAN 0.016 0.017 ST.DEV 0.003 0.002 N 5 5 MEAN 0.016 0.017 ST.DEV 0.003 0.002 N 5 5 MEAN 0.016 0.017 ST.DEV 0.003 0.002 N 5 5 MEAN 0.249 0.227 ST.DEV 0.038 0.031 N 5 5 MEAN 0.249 0.227 ST.DEV 0.09 0.08 N 10 10 MEAN 0.96 0.89 ST.DEV 0.09 0.08 N 10 10 MEAN 0.296 0.295 ST.DEV 0.036 0.025	T MEAN 424 416 416 ST.DEV 24 24 33 N 10 10 10 10 MEAN 0.47 0.52 0.50 ST.DEV 0.02 0.03 0.05 N 5 5 5 MEAN 0.292 0.324 * 0.322 * ST.DEV 0.017 0.023 0.011 N 5 5 5 5 MEAN 2.65 2.55 2.60 ST.DEV 0.16 0.10 0.18 N 5 5 5 MEAN 0.108 0.086 0.089 ST.DEV 0.023 0.018 0.022 N 5 5 5 MEAN 0.73 0.77 0.74 ST.DEV 0.06 0.06 0.05 N 5 5 5 MEAN 0.73 0.77 0.74 ST.DEV 0.06 0.06 0.05 N 5 5 5 MEAN 0.016 0.017 0.017 ST.DEV 0.003 0.002 N 5 5 5 MEAN 0.016 0.017 0.017 ST.DEV 0.003 0.002 N 5 5 5 MEAN 0.016 0.017 0.017 ST.DEV 0.003 0.002 N 5 5 5 MEAN 0.249 0.227 0.243 ST.DEV 0.038 0.031 0.018 N 5 5 5 MEAN 0.249 0.227 0.243 ST.DEV 0.09 0.08 0.091 N 10 10 10 MEAN 0.96 0.89 0.93 ST.DEV 0.09 0.08 0.07 N 10 10 10 MEAN 0.296 0.295 0.282 ST.DEV 0.036 0.025 0.016

^{*/**} Dunnett-test based on pooled variance significant at 5% (*) or 1% (**) level

ORGAN WEIGHTS (GRAM) SUMMARY FEMALES

		GROUP 1 CONTROL	GROUP 2 50 MG/KG	GROUP 3 150 MG/KG	GROUP 4 500 MG/KG
END OF TREATMEN BODY W. (GRAM)	T MEAN ST.DEV N	268 14 5	286 13 5	283 14 5	271 17 5
BRAIN (GRAM)	MEAN ST.DEV N	1.91 0.06 5	1.91 0.06 5	1.89 0.08 5	1.84 0.06 5
HEART (GRAM)	MEAN ST.DEV N	0.950 0.059 5	1.005 0.061 5	1.013 0.053 5	1.049 * 0.065 5
LIVER (GRAM)	MEAN ST.DEV N	9.22 0.38 5	10.23 * 0.41 5	9.85 0.76 5	9.27 0.58 5
THYMUS (GRAM)	MEAN ST.DEV N	0.228 0.048 5	0.226 0.059 5	0.201 0.016 5	0.158 * 0.027 5
KIDNEYS (GRAM)	MEAN ST.DEV N	2.01 0.15 5	2.15 0.19 5	2.26 0.11 5	2.37 ** 0.18 5
ADRENALS (GRAM)	MEAN ST.DEV N	0.093 0.008 5	0.108 0.014 5	0.114 * 0.009 5	0.113 * 0.008 5
SPLEEN (GRAM)	MEAN ST.DEV N	0.885 0.040 5	0.876 0.105 5	0.870 0.213 5	0.691 0.118 5

^{*/**} Dunnett-test based on pooled variance significant at 5% (*) or 1% (**) level

ORGAN/BODY WEIGHT RATIOS (%) SUMMARY FEMALES

		GROUP 1 CONTROL	GROUP 2 50 MG/KG	GROUP 3 150 MG/KG	GROUP 4 500 MG/KG
END OF TREATME	ENT				
BODY W. (GRAM)	MEAN ST.DEV N	268 14 5	286 13 5	283 14 5	271 17 5
BRAIN (%)	MEAN ST.DEV N	0.71 0.06 5	0.67 0.03 5	0.67 0.02 5	0.68 0.03 5
HEART (%)	MEAN ST.DEV N	0.355 0.026 5	0.353 0.027 5	0.358 0.027 5	0.388 0.028 5
LIVER (%)	MEAN ST.DEV N	3,45 0.25 5	3.58 0.04 5	3.48 0.31 5	3.43 0.24 5
THYMUS (%)	MEAN ST.DEV N	0.085 0.016 5	0.079 0.018 5	0.071 0.005 5	0.058 * 0.009 5
KIDNEYS (%)	MEAN ST.DEV N	0.75 0.07 5	0.75 0.07 5	0.80 0.03 5	0.88 * 0.04 5
ADRENALS (%)	MEAN ST.DEV N	0.035 0.004 5	0.038 0.004 5	0.040 0.004 5	0.042 0.006 5
SPLEEN (%)	MEAN ST.DEV N	0.331 0.030 5	0.306 0.025 5	0.309 0.083 5	0.255 0.033 5

REPRODUCTION PROCESSES FEMALES F0-GENERATION - POST COITUM

FEMALE NUMBER	NOTE	MALE NUMBER	MATING DATE	PREGNANT	SCHEDULE	DELIVERY RECORDED	NECROPSY DATE			
GROUP 1	GROUP 1 (CONTROL)									
41	(00	1	26JAN2007	YES	BREEDING	17FEB2007	22FEB2007			
42		2	26JAN2007	YES	BREEDING	16FEB2007	21FEB2007			
43		3	24JAN2007	YES	BREEDING	14FEB2007	19FEB2007			
44		4	25JAN2007	YES	BREEDING	15FEB2007	20FEB2007			
45		5	26JAN2007	YES	BREEDING	15FEB2007	20FEB2007			
46		6	23JAN2007	YES	BREEDING	14FEB2007	19FEB2007			
47		7	24JAN2007	YES	BREEDING	15FEB2007	20FEB2007			
48		8	25JAN2007	YES	BREEDING	14FEB2007	20FEB2007 20FEB2007			
49		9	25JAN2007 25JAN2007	YES	BREEDING	16FEB2007	21FEB2007			
50		10	25JAN2007 <**>		DREEDING	TOFEDZUU/				
50		10		NO			21FEB2007			
GROUP 2	(50 MG/H	(G)								
51	•	11	<**>	NO			21FEB2007			
52		12	26JAN2007	YES	BREEDING	17FEB2007	22FEB2007			
53		13	23JAN2007	YES	BREEDING	13FEB2007	19FEB2007			
54		14	25JAN2007	YES	BREEDING	15FEB2007	20FEB2007			
55	\$	15	<**>	NO			21FEB2007			
56		16	26JAN2007	YES	BREEDING	17FEB2007	22FEB2007			
57		17	26JAN2007	YES	BREEDING	17FEB2007	22FEB2007			
58		18	23JAN2007	YES	BREEDING	13FEB2007	19FEB2007			
59		19	25JAN2007	YES	BREEDING	15FEB2007	20FEB2007			
60		20	23JAN2007	YES	BREEDING	14FEB2007	15FEB2007			
GROUP 3	(150 MG/	KG)								
61	(21	26JAN2007	YES	BREEDING	17FEB2007	22FEB2007			
62		22	23JAN2007	YES	BREEDING	13FEB2007	19FEB2007			
63		23	25JAN2007	YES	BREEDING	16FEB2007	21FEB2007			
64		24	23JAN2007	YES	BREEDING	13FEB2007	19FEB2007			
65		25	23JAN2007	YES	BREEDING	13FEB2007	19FEB2007			
66		26	27JAN2007	YES	BREEDING	16FEB2007	21FEB2007			
67		27	26JAN2007	YES	BREEDING	16FEB2007	21FEB2007			
68		28	25JAN2007	YES	BREEDING	16FEB2007	21FEB2007			
69		29	23JAN2007	YES	BREEDING	13FEB2007	19FEB2007			
70		30	25JAN2007	YES	BREEDING	15FEB2007	20FEB2007			
GROUP 4	500 MG/	KG)								
71	,	31	25JAN2007	YES	BREEDING	16FEB2007	21FEB2007			
72		32	24JAN2007	YES	BREEDING	15FEB2007	20FEB2007			
73		33	<**>	NO			21FEB2007			
73 74		34	25JAN2007	YES	BREEDING	16FEB2007	21FEB2007			
75 <io></io>		35	26JAN2007	YES			21FEB2007			
76		36	25JAN2007	YES	BREEDING	16FEB2007	21FEB2007			
77 <io></io>		37	23JAN2007	YES			21FEB2007			
78		38	24JAN2007	YES	BREEDING	15FEB2007	20FEB2007			
79		39	25JAN2007	YES	BREEDING	15FEB2007	20FEB2007			
80		40	24JAN2007	YES	BREEDING	15FEB2007	20FEB2007			
00			_ ,0, 12,007		JDII 10					

<IO> Implantation sites only \$ Mating not confirmed but showed to be pregnant at necropsy <**> No mating

MATING PERFORMANCE F0-GENERATION - POST COITUM

DAY OF THE PAIRING PERIOD	GROUP 1 CONTROL	GROUP 2 50 MG/KG	GROUP 3 150 MG/KG	GROUP 4 500 MG/KG
NUMBER OF FEMALES MA	TED DURING	THE FIRST P	AIRING PERIO	OD .
1	1	3	4	1
2	2	-	-	3
3	3	2	3	4
4	3	3	2	1
5	-	-	1	-
MEDIAN PRECOITAL TIME	3	3	3	3
MEAN PRECOITAL TIME	2.9	2.6	2.6	2.6
N	9	8	10	9

BREEDING DATA PER GROUP F0-GENERATION - LACTATION

	GROUP 1 CONTROL	GROUP 2 50 MG/KG	GROUP 3 150 MG/KG	GROUP 4 500 MG/KG
LITTERS				
TOTAL	9	8	10	7
DURATION OF GESTATION				
MEAN (+)	21.2	21.5	21.2	21.9
ST.DEV.	0.8	0.5	0.6	0.4
N	9	8	10	7
DEAD PUPS AT FIRST LITTER CHECK				
LITTERS AFFECTED (#)	2	1	1	1
TOTAL	2	i	3	3
MEAN (+)	0.2	0.1	0.3	0.4
ST.DEV.	0.4	0.4	0.9	1.1
N	9	8	10	7
LIVING PUPS AT FIRST LITTER CHECK				
% OF MALES / FEMALES (#)	45 / 55	43 / 58	49 / 51	48 / 52
TOTAL	144	120	167	48
MEAN (+)	16.0	15.0	16.7	6.9 ++
ST.DEV.	1.7	3.6	2.0	3.0
N	9	8	10	7
POSTNATAL LOSS				
% OF LIVING PUPS	0.0	12.5	6.0	20.8
LITTERS AFFECTED (#)	0	3	5	2
TOTAL (#)	Ō	15 ##	10 ##	
MEAN (+)	0.0	1.9	1.0	1.4
ST.DEV.	0.0	4.5	1.3	3.0
N	9	8	10	7
VIABILITY INDEX (#)	100.0	87.5 ##	94.0 ##	79.2 ##

MEAN BODY WEIGHTS OF PUPS PER GROUP (GRAM) F0-GENERATION - LACTATION

DAY	SEX		GROUP 1 CONTROL	GROUP 2 50 MG/KG	GROUP 3 150 MG/KG	GROUP 4 500 MG/KG
1	М	MEAN ST.DEV. N	6.6 0.5 9	6.7 0.6 8	6.3 0.3 10	6.7 0.8 6
	F	MEAN ST.DEV. N	6.2 0.6 9	6.5 0.7 8	5.9 0.2 10	6.3 0.7 7
	M+F	MEAN ST.DEV. N	6.4 0.5 9	6.6 0.6 8	6.1 0.3 10	6.4 0.7 7
4	М	MEAN ST.DEV. N	9.5 1.1 9	10.2 1.4 7	9.1 0.8 10	10.0 1.3 6
	F	MEAN ST.DEV. N	8.9 1.3 9	9.5 1.7 7	8.3 0.8 10	9.6 1.2 6
	M+F	MEAN ST.DEV. N	9.2 1.2 9	9.8 1.5 7	8.7 0.8 10	9.7 1.0 6

APPENDIX 2 INDIVIDUAL TABLES

MORTALITY DATA MALES

ANIMA	L SCHEDULED SACRIFICE	OTHER	TREATMENT FROM	то
	SAURIFICE		FROM	10
GROUI 1	P 1 (CONTROL) 08FEB07		08JAN07	07FEB07
2	08FEB07		08JAN07	07FEB07
3	08FEB07		08JAN07	07FEB07
3 4				07FEB07
	08FEB07		08JAN07	
5	08FEB07		08JAN07	07FEB07
6	08FEB07		08JAN07	07FEB07
7	08FEB07		08JAN07	07FEB07
8	08FEB07		08JAN07	07FEB07
9	08FEB07		08JAN07	07FEB07
10	08FEB07		08JAN07	07FEB07
GROUI	P 2 (50 MG/KG)			
11	08FEB07		08JAN07	07FEB07
12	08FEB07		08JAN07	07FEB07
13	08FEB07		08JAN07	07FEB07
14	08FEB07		08JAN07	07FEB07
15	08FEB07		08JAN07	07FEB07
				07FEB07
16	08FEB07		08JAN07	
17	08FEB07		08JAN07	07FEB07
18	08FEB07		08JAN07	07FEB07
19	08FEB07		08JAN07	07FEB07
20	08FEB07		08JAN07	07FEB07
GROUI	2 3 (150 MG/KG)			
21	08FEB07		08JAN07	07FEB07
22	08FEB07		08JAN07	07FEB07
23	08FEB07		08JAN07	07FEB07
24	08FEB07		08JAN07	07FEB07
25	08FEB07		08JAN07	07FEB07
26	08FEB07		08JAN07	07FEB07
27	08FEB07		08JAN07	07FEB07
28	08FEB07		08JAN07	07FEB07
	08FEB07		08JAN07	07FEB07
29				07FEB07
30	08FEB07		08JAN07	UIFEBUI
GROU	4 (500 MG/KG)			
31	08FEB07		08JAN07	07FEB07
32	08FEB07		08JAN07	07FEB07
33	08FEB07		08JAN07	07FEB07
34	08FEB07		08JAN07	07FEB07
35	08FEB07		08JAN07	07FEB07
36	08FEB07		08JAN07	07FEB07
37	08FEB07		08JAN07	07FEB07
38	08FEB07		08JAN07	07FEB07
39	08FEB07		08JAN07	07FEB07
39 40	08FEB07		08JAN07	07FEB07
40	OOLEDA!		0007H401	VII ED01

MORTALITY DATA FEMALES

ANIMA	L SCHEDULED SACRIFICE	OTHER	TREATMENT FROM	то
GROU 41 42 43 44 45 46 47 48	P 1 (CONTROL) 22FEB07 21FEB07 19FEB07 20FEB07 20FEB07 20FEB07 20FEB07		08JAN07 08JAN07 08JAN07 08JAN07 08JAN07 08JAN07 08JAN07	21FEB07 20FEB07 18FEB07 19FEB07 19FEB07 18FEB07 19FEB07
49 50	21FEB07 21FEB07		08JAN07 08JAN07	20FEB07 21FEB07
	P 2 (50 MG/KG)			
51 52 53 54 55 56 57	21FEB07 22FEB07 19FEB07 20FEB07 21FEB07 22FEB07 22FEB07		08JAN07 08JAN07 08JAN07 08JAN07 08JAN07 08JAN07 08JAN07	21FEB07 21FEB07 18FEB07 19FEB07 21FEB07 21FEB07 18FEB07
59 60	20FEB07	15FEB07	08JAN07 08JAN07	19FEB07 15FEB07
61 62 63 64 65 66 67 68 69 70	P 3 (150 MG/KG) 22FEB07 19FEB07 21FEB07 19FEB07 19FEB07 21FEB07 21FEB07 21FEB07 20FEB07		08JAN07 08JAN07 08JAN07 08JAN07 08JAN07 08JAN07 08JAN07 08JAN07 08JAN07	21FEB07 18FEB07 20FEB07 18FEB07 18FEB07 20FEB07 20FEB07 20FEB07 18FEB07 19FEB07
71 72 73 74 75 76 77 78 79	21FEB07 21FEB07 21FEB07 21FEB07 21FEB07 21FEB07 21FEB07 21FEB07 20FEB07	17FEB07	08JAN07 08JAN07 08JAN07 08JAN07 08JAN07 08JAN07 08JAN07 08JAN07 08JAN07	20FEB07 19FEB07 21FEB07 20FEB07 21FEB07 20FEB07 21FEB07 19FEB07 19FEB07

	PRE MATING REPRO PHASE	
SIGN (MAX. GRADE) (LOCATION)	WEEK:114 DAY: 12345671234567123456712345671234567123456	
GROUP 1 (CONTROL) ANIMAL 1		
Secretion / excretion		
Chromodacryorrhoea (3) (Eye right)	G:1	
ANIMAL 2		
No clinical signs noted ANIMAL 3		
No clinical signs noted		
ANIMAL 4		
No clinical signs noted		
ANIMAL 5		
Skin / fur / plumage Scabs (3)	G:	
(Ear right)	G	
ANIMAL 6		
Various		
Broken (1)	G: 11111111111111111111111111111	
(Tail apex) ANIMAL 7		
No clinical signs noted		
ANIMAL 8		
No clinical signs noted		
ANIMAL 9		
No clinical signs noted ANIMAL 10		
No clinical signs noted		
GROUP 2 (50 MG/KG)	899 599 201	
ANIMAL 11		
Skin / fur / plumage Yellow discolouration (1)	G: 111111111111111	
(Urine)	G	
ANIMAL 12		
Skin / fur / plumage		
Yellow discolouration (1)	G:111111111111111	
(Urine)		
ANIMAL 13 Skin / fur / plumage		
Yellow discolouration (1)	G:	
(Urine)		
ANIMAL 14		
Skin / fur / plumage	G: 11111111111111111	
Yellow discolouration (1) (Urine)	G:111111111111111	
ANIMAL 15		
Skin / fur / plumage		
Yellow discolouration (1)	G:111111111111111	
(Urine)		
Various Broken (1)	G:1111111111111111111111111111111	
(Tail apex)	G	
ANIMAL 16		
Skin / fur / plumage		
Yellow discolouration (1)	G: 11111111111111111	
(Urine)		
ANIMAL 17 Skin / fur / plumage		
Yellow discolouration (1)	G:11111111111111	
(Urine)	- -	

G: Highest daily grades
.: Observation performed, sign not present

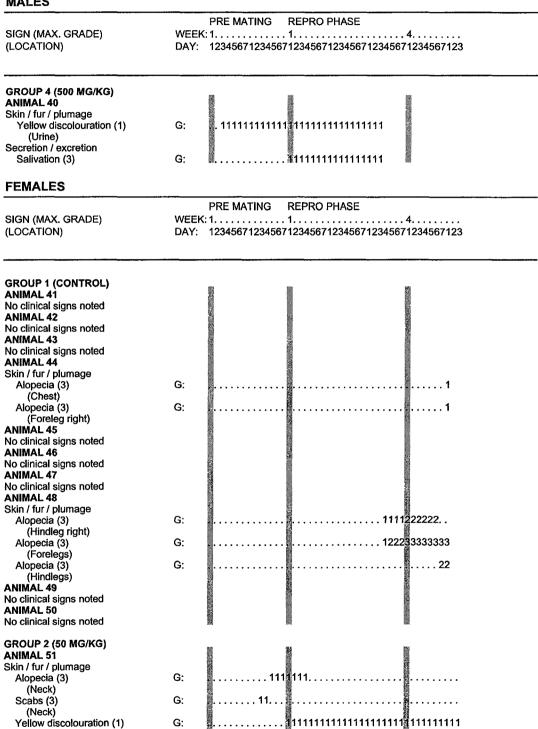
DION (MANY ODADE)	. A	PRE MATING REPRO PHASE
SIGN (MAX. GRADE) (LOCATION)		K: 1
GROUP 2 (50 MG/KG)		* *
ANIMAL 18		
Skin / fur / plumage Yellow discolouration (1)	G:	
(Urine)	G.	
ANIMAL 19		
Skin / fur / plumage		
Yellow discolouration (1)	G:	
(Urine)		
ANIMAL 20 Skin / fur / plumage		
Yellow discolouration (1)	G:	
(Urine)	О.	
(2)		
GROUP 3 (150 MG/KG)		**
ANIMAL 21		
Skin / fur / plumage Yellow discolouration (1)	G:	1111111111111111111111111111111111
(Urine)	G.	*
ANIMAL 22		
Skin / fur / plumage		
Yellow discolouration (1)	G:	111111111111111111111111
(Urine)		
Secretion / excretion Diarrhoea (1)	G:	
ANIMAL 23	G.	§ I §
Skin / fur / plumage		
Yellow discolouration (1)	G:	1111111111111111111111111
(Urine)		
ANIMAL 24		
Skin / fur / plumage Yellow discolouration (1)	G:	1111111111111111111111111
(Urine)	G.	
NIMAL 25		
Skin / fur / plumage		
Yellow discolouration (1)	G:	11111111111111111111111
(Urine)		
ANIMAL 26		
Skin / fur / plumage Yellow discolouration (1)	G:	1111111111111111111111111
(Urine)	٥.	
NIMAL 27		
kin / fur / plumage		
Yellow discolouration (1)	G:	11111111111111111111111
(Urine)		
NIMAL 28 skin / fur / plumage		
Yellow discolouration (1)	G:	111111111111111111111111
(Urine)		
ANIMAL 29		
Skin / fur / plumage	_	
Yellow discolouration (1)	G:	1111111111111111111111111
(Urine) ANIMAL 30		
Skin / fur / plumage		11111111111111111111111111111111111
	•	
Yellow discolouration (1)	G:	11111111111111111111111

G: Highest daily grades
.: Observation performed, sign not present

	PRE MATING REPRO PHASE	_
SIGN (MAX. GRADE) (LOCATION)	WEEK: 1	

F		
GROUP 4 (500 MG/KG)		
ANIMAL 31		
Skin / fur / plumage		
Yellow discolouration (1)	G:	. 111111111111111111111111111111
(Urine)		
Secretion / excretion		
Salivation (3)	G:	
ANIMAL 32		
Skin / fur / plumage	_	
Yellow discolouration (1)	G:	. 111111111111111111111111111111
(Urine)		
Secretion / excretion	_	
Salivation (3)	G:	1111111111111111
ANIMAL 33		
Skin / fur / plumage	_	
Yellow discolouration (1)	G:	. 11111111111111111111111111111
(Urine)		
Secretion / excretion	0.	444444444444444444444444444444444444444
Salivation (3)	G:	1111 11111111111111111
ANIMAL 34		
Skin / fur / plumage Yellow discolouration (1)	G:	. 111111111111111111111111111111
(Urine)	G.	
Secretion / excretion		
Salivation (3)	G:	
ANIMAL 35	O .	
Skin / fur / plumage		
Yellow discolouration (1)	G:	. 111111111111111111111111111111
(Urine)	0.	
Secretion / excretion		
Salivation (3)	G:	
ANIMAL 36		
Skin / fur / plumage		
Yellow discolouration (1)	G:	111111111111111111111111111111111111111
(Urine)		!
Secretion / excretion		
Salivation (3)	G:	
ANIMAL 37		
Breathing		
Rales (3)	G:	,
Skin / fur / plumage		
Yellow discolouration (1)	G:	. 11111111111111111111111111111
(Urine)		
Secretion / excretion	_	
Salivation (3)	G:	
ANIMAL 38		
Breathing	_	
Rales (3)	G:	.
Skin / fur / plumage	0.	444444444444444444444444444444444444444
Yellow discolouration (1)	G:	. 111111111111111111111111111111
(Urine)		
Secretion / excretion	C.	1111211111111111111
Salivation (3)	G:	1 1112111111111111111111111
ANIMAL 39		
Skin / fur / plumage	G:	. 111111111111111111111111111111
Yellow discolouration (1)	G.	**************************************
(Urine) Secretion / excretion		
Salivation (3)	G:	
Gallvation (0)	Э.	3000,

G: Highest daily grades
.: Observation performed, sign not present



(Urine)

G: Highest daily grades

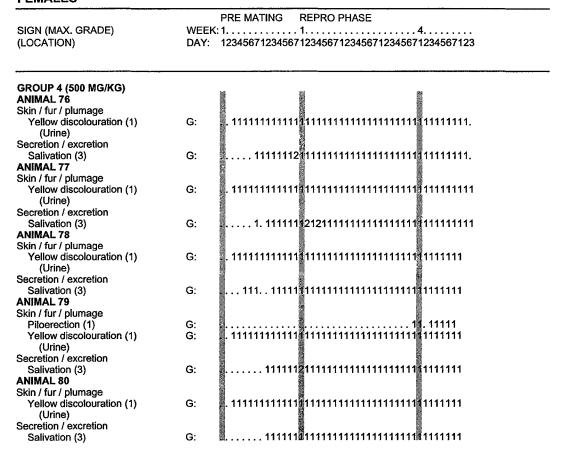
^{.:} Observation performed, sign not present

		PRE MATING REPRO PHASE
SIGN (MAX. GRADE) (LOCATION)		14
GROUP 2 (50 MG/KG)		
ANIMAL 52		
Skin / fur / plumage	6 .	
Yellow discolouration (1) (Urine)	G:	
ANIMAL 53		
Skin / fur / plumage		
Yellow discolouration (1)	G:	
(Urine)	U .	
ANIMAL 54		
Skin / fur / plumage		
Yellow discolouration (1)	G:	 1111111111111111111111111111111
(Urine)		
ANIMAL 55		
Skin / fur / plumage		
Yellow discolouration (1)	G:	
(Urine)		
ANIMAL 56		
Skin / fur / plumage	G:	
Yellow discolouration (1) (Urine)	G:	
Secretion / excretion		
Salivation (3)	G:	.
ANIMAL 57	O .	
Skin / fur / plumage		
Yellow discolouration (1)	G:	
(Urine)		
ANIMAL 58		
Skin / fur / plumage		
Yellow discolouration (1)	G:	
(Urine)		
ANIMAL 59		
Skin / fur / plumage	٥.	111111111111111111111111111111111111111
Alopecia (3) (Thigh hind right)	G:	
Yellow discolouration (1)	G:	
(Urine)	Ο.	
ANIMAL 60		
Skin / fur / plumage		
Yellow discolouration (1)	G:	
(Urine)		
GROUP 3 (150 MG/KG)	1	
ANIMAL 61		
Skin / fur / plumage Yellow discolouration (1)	G:	11111111111 111111111111111111111
(Urine)	0.	
NIMAL 62		
Skin / fur / plumage		
Yellow discolouration (1)	G:	11111111111111111111111111111111111
(Urine)		
ANIMAL 63		
Skin / fur / plumage		
Yellow discolouration (1)	G:	1111111111 111111111111111111111111
(Urine)		
NIMAL 64		
Skin / fur / plumage	_	#
Yellow discolouration (1)	G:	1111111111111111111111111111111
(Urine)	I	

G: Highest daily grades
.: Observation performed, sign not present

LEINIALE2		
	PRE MATING REPRO PHASE	
SIGN (MAX. GRADE)	WEEK: 1 1 1 4	
(LOCATION)	DAY: 12345671234567123456712345671234567123	4567123
GROUP 3 (150 MG/KG)		
ANIMAL 65		
Skin / fur / plumage		
Yellow discolouration (1)	G: 111111111111111111111111111111111	1111
(Urine)		
ANIMAL 66		
Skin / fur / plumage		
Yellow discolouration (1)	G: 111111111111111111111111111111111	111111
(Urine) ANIMAL 67		
Skin / fur / plumage		
Yellow discolouration (1)	G: 111111111111111111111111111111111	111111
(Urine)		
ANIMAL 68		
Skin / fur / plumage		
Yellow discolouration (1)	G: 111111111111111111111111111111111	111111
(Urine)		
ANIMAL 69		
Skin / fur / plumage	G: 111111111111111111111111111111111	4444
Yellow discolouration (1) (Urine)	G: 111111111111111111111111111111111	1113
ANIMAL 70		
Skin / fur / plumage		
Yellow discolouration (1)	G: 111111111111111111111111111111111	11111
(Urine)		
GROUP 4 (500 MG/KG)		
ANIMAL 71		
Skin / fur / plumage		
Yellow discolouration (1)	G: 111111111111111111111111111111111111	111111.
(Urine)		
Secretion / excretion Salivation (3)	G: 21111111111111111111111111111111	111111
ANIMAL 72	G	, , , , , , , , , , , , , , , , , , , ,
Skin / fur / plumage		
Yellow discolouration (1)	G: . 11111111111111111111111111111111111	11111
(Urine)		
Secretion / excretion		
Salivation (3)	G: 111. 1. 1111 11111111111111111111	11111
ANIMAL 73		
Skin / fur / plumage Yellow discolouration (1)	G: 111111111111111111111111111111111	1111111
(Urine)	G	,,,,,,,
Secretion / excretion		
Salivation (3)	G: 11112221112111111111111111111111	111111
ANIMAL 74		
Skin / fur / plumage		
Yellow discolouration (1)	G: . 11111111111111111111111111111111111	111111.
(Urine)		
Secretion / excretion	G: 1111221222311111111111111111111111	111111
Salivation (3) ANIMAL 75	G:11112212221111111111111111111111111	
Skin / fur / plumage	Name of the state	
Yellow discolouration (1)	G: . 11111111111111111111111111111111111	1111111
(Urine)		
Secretion / excretion		
Salivation (3)	G: \$111111311111111111111111111111111	1111111

G: Highest daily grades
.: Observation performed, sign not present



G: Highest daily grades

^{.:} Observation performed, sign not present

BODY WEIGHTS (GRAM) MALES

	PRE	MATING	MA	TING	PER	IOD		
DAYS	1	8	1	8	15	22	29	36
WEEKS	1	2	1	2	3	4	5	6
ANIMAL								
ODOUD 4	(00N	TDOL						
GROUP 1			420	445	474			
1 2		376 359		445				
3		380		413 447				
4		362		419				
5		369		428				
6		382		441				
7		377		445				
8		360		404				
9		353		389				
10		403		440				
	000		,_0					
GROUP 2	(50 M	G/KG)						
11	344	372	423	451	471			
12		363		418				
13		367		409				
14		362		429				
15		349		389				
16		357		393				
17		378		420				
18		355		410				
19		363		419				
20	343	391	429	449	4/4			
GROUP 3	(150 N	/IG/KG)						
21		362	394	412	434			
22	342	384	427	453	486			
23	347	357	371	378	397			
24	349	368	388	403	421			
25	343	383		462				
26		371		408				
27		388		445				
28		374		432				
29		374		398				
30	323	354	3/8	395	417			
GROUP 4	(500 N	IG/KG)						
31		366	406	402	433			
32		373		408				
33		350		419				
34		340		395				
35		350		374				
36		346		389				
37		365		403				
38		361		406				
39	332	360	402	384	417			
40		389	420	440	467			

BODY WEIGHTS (GRAM) FEMALES

	PRE	MATING	MA	ring	PER	IOD		
DAYS	1	8	1	8	15	22	29	36
WEEKS	i	2	<u>.</u>	2	3	4	5	6
ANIMAL	'	_	'	_	•	7	•	· ·
VIAIIAIVE								
GROUP 1			054					
41		251						
42		244						
43	_	240		288				
44		230		264				
45 46		242		261 				
46 47		224 230						
47		252						
48		236						
49								
50	228	242	248	279	214	∠ 0 3	292	
GROUP 2	50 M	G/KG)						
51		241	229	265	273	306	303	
52		239						
53		242						
54		236						
55		248		289				
56		229						
57		244						
58		232						
59		241		280				
60		235						
000110.0	450 %	10//0						
GROUP 3 (•	240					
61 62		218	218					
62	240		264					
63 64	240		255					
64 65		230	249					
65 ee		223	232					
66 67	229 224		239					
67 60	219		247					
68 60			240					
69 70		232	246 272					
70	246	202	212					
GROUP 4 (
71	237							
72		234						
73	238			265				
74	238							
75	229							
76	230							
77	245							
	224	225	227					
78								
78 79 80	218 214	231	244	265	296	336		

BODY WEIGHTS (GRAM) FEMALES F0-GENERATION

	POS	T C						LAC	TATIO
DAYS ANIMAL	0	4	7	11	14	17	20	1	4
GROUP 1	(CON	TROL	_)						
41				330	341	387	454	332	333
42					310				
43								307	
44	241	265	280	291	323				
45								306	
46	238	269	274	296	309				
47					312				
48					335				
49					317				
70	240	200	202	202	5.7	502	700	254	J27
GROUP 2	(50 M	3/KG	1						
52				298	323	365	415	321	329
52 53					363				
54					317				
5 6					306				
57					315				
57 58					310				
59					310				
59 60									
60	200	201	299	321	342	3/4	432	330	
GROUP 3	(150 N	IG/K	G۱						
61				273	287	329	380	265	278
62					316				
63					330				
64					322				
65 66					270				
66 67					314				
67					325				
68					315				
69					296				
70	281	292	298	316	342	387	447	322	338
CPALID 4	/500 K	CIV	G)						
GROUP 4 71				307	314	338	35/	201	308
72 74					332				
74 75 dOs					336				
75 <io></io>					297				
76					282				
77 <io></io>					319				
78 	238	246	253	273	284	316			
70								301	295
79 80	_				298				

BODY WEIGHT GAIN (%) MALES

DAYS 1 8 1 8 15 22 29 36 WEEKS 1 2 1 2 3 4 5 6 WINIMAL GROUP 1 (CONTROL) 1 0 13 26 33 41 2 0 9 20 26 32 3 0 14 26 34 42 4 0 11 21 28 32 5 0 11 19 29 34 6 0 12 22 30 35 7 0 13 26 34 43 8 0 10 17 24 27 9 0 8 15 19 23 10 0 10 16 20 28 GROUP 2 (50 MG/KG) 11 0 8 23 31 37 12 0 7 20 24 27 13 0 10 17 23 29 14 0 9 22 30 33 15 0 7 17 19 23 16 0 7 16 19 26 17 0 7 16 19 26 18 0 11 18 28 33 19 0 11 23 28 37 20 0 13 24 30 37 GROUP 3 (150 MG/KG) 21 0 11 20 26 33 19 0 11 23 28 37 20 0 12 25 32 42 23 0 3 7 9 14 24 0 5 11 15 21 25 0 12 26 35 43 26 0 9 16 20 26 27 0 15 25 32 41 28 0 10 21 27 31 29 0 14 18 22 30 30 0 10 17 22 29 GROUP 4 (500 MG/KG) 31 0 5 16 15 24 32 0 6 15 16 23 33 0 7 19 28 37 34 0 4 17 21 29
GROUP 1 (CONTROL) 1
GROUP 1 (CONTROL) 1
1
1 0 13 26 33 41 2 0 9 20 26 32 3 0 14 26 34 42 4 0 11 21 28 32 5 0 11 19 29 34 6 0 12 22 30 35 7 0 13 26 34 43 8 0 10 17 24 27 9 0 8 15 19 23 10 0 10 16 20 28 GROUP 2 (50 MG/KG) 11 0 8 23 31 37 12 0 7 20 24 27 13 0 10 17 23 29 14 0 9 22 30 33 15 0 7 17 19 23 16 0 7 16 17 26 17 0 7 16 17 26 18 0 11 18 28 33 19 0 11 23 28 37 20 0 13 24 30 37 GROUP 3 (150 MG/KG) 21 0 11 20 26 33 22 0 12 25 32 42 23 0 3 7 9 14 24 0 5 11 15 21 25 0 12 26 35 43 26 0 9 16 20 26 27 0 15 25 32 41 28 0 10 21 27 31 29 0 14 18 22 30 30 0 10 17 22 29 GROUP 4 (500 MG/KG) 31 0 5 16 15 24 32 0 6 15 16 23 33 0 7 19 28 37
2
3
5
5
6 0 12 22 30 35 7 0 13 26 34 43 8 0 10 17 24 27 9 0 8 15 19 23 10 0 10 16 20 28 GROUP 2 (50 MG/KG) 11 0 8 23 31 37 12 0 7 20 24 27 13 0 10 17 23 29 14 0 9 22 30 33 15 0 7 17 19 23 16 0 7 16 17 26 17 0 7 16 17 26 17 0 7 16 19 26 18 0 11 18 28 33 19 0 11 23 28 37 20 0 13 24 30 37 GROUP 3 (150 MG/KG) 21 0 11 20 26 33 22 0 12 25 32 42 23 0 3 7 9 14 24 0 5 11 15 21 25 0 12 26 35 43 26 0 9 16 20 26 27 0 15 25 32 41 28 0 10 21 27 31 29 0 14 18 22 30 30 0 10 17 22 29 GROUP 4 (500 MG/KG) 31 0 5 16 15 24 32 0 6 15 16 23 33 0 7 19 28 37
7 0 13 26 34 43 8 0 10 17 24 27 9 0 8 15 19 23 10 0 10 16 20 28 GROUP 2 (50 MG/KG) 11 0 8 23 31 37 12 0 7 20 24 27 13 0 10 17 23 29 14 0 9 22 30 33 15 0 7 17 19 23 16 0 7 16 17 26 17 0 7 16 19 26 18 0 11 18 28 33 19 0 11 23 28 37 20 0 13 24 30 37 GROUP 3 (150 MG/KG) 21 0 11 20 26 33 19 0 11 23 28 37 20 0 12 25 32 42 22 0 12 25 32 42 23 0 3 7 9 14 24 0 5 11 15 21 25 0 12 26 35 43 26 0 9 16 20 26 27 0 15 25 32 41 28 0 10 21 27 31 29 0 14 18 22 30 30 0 10 17 22 29 GROUP 4 (500 MG/KG) 31 0 5 16 15 24 32 0 6 15 16 23 33 0 7 19 28 37
8
10 0 10 16 20 28 GROUP 2 (50 MG/KG) 11 0 8 23 31 37 12 0 7 20 24 27 13 0 10 17 23 29 14 0 9 22 30 33 15 0 7 17 19 23 16 0 7 16 17 26 17 0 7 16 19 26 18 0 11 18 28 33 19 0 11 23 28 37 20 0 13 24 30 37 GROUP 3 (150 MG/KG) 21 0 11 20 26 33 22 0 12 25 32 42 23 0 3 7 9 14 24 0 5 11 15 21 25 0 12 26 35 43 26 0 9 16 20 26 27 0 15 25 32 41 28 0 10 21 27 31 29 0 14 18 22 30 30 0 10 17 22 29 GROUP 4 (500 MG/KG) 31 0 5 16 15 24 32 0 6 15 16 23 33 0 7 19 28 37
GROUP 2 (50 MG/KG) 11
11
11
12
13
15
16
17 0 7 16 19 26 18 0 11 18 28 33 19 0 11 23 28 37 20 0 13 24 30 37 GROUP 3 (150 MG/KG) 21 0 11 20 26 33 22 0 12 25 32 42 23 0 3 7 9 14 24 0 5 11 15 21 25 0 12 26 35 43 26 0 9 16 20 26 27 0 15 25 32 41 28 0 10 21 27 31 29 0 14 18 22 30 30 0 10 17 22 29 GROUP 4 (500 MG/KG) 31 0 5 16 15 24 32 0 6 15 16 23 33 0 7 19 28 37
18
19
20 0 13 24 30 37 GROUP 3 (150 MG/KG) 21 0 11 20 26 33 22 0 12 25 32 42 23 0 3 7 9 14 24 0 5 11 15 21 25 0 12 26 35 43 26 0 9 16 20 26 27 0 15 25 32 41 28 0 10 21 27 31 29 0 14 18 22 30 30 0 10 17 22 29 GROUP 4 (500 MG/KG) 31 0 5 16 15 24 32 0 6 15 16 23 33 0 7 19 28 37
GROUP 3 (150 MG/KG) 21
21
22
23
24
25
26
27
28
29
30 0 10 17 22 29 GROUP 4 (500 MG/KG) 31 0 5 16 15 24 32 0 6 15 16 23 33 0 7 19 28 37
GROUP 4 (500 MG/KG) 31
31
32
33 0 7 19 28 37
04 11 41 4 3
35 0 4 13 12 22
36 0 6 15 19 27
37 0 5 13 15 21
38 0 6 24 20 29
39 0 8 21 16 26
40 0 10 18 24 32

BODY WEIGHT GAIN (%) FEMALES

	PRE	MATING	MA	ring	PER	IOD		
DAYS		8	1	8		22	29	36
NEEKS		2	1	2	3	4	5	6
ANIMAL	•	_	•	_	•	•	•	
11411VI/AL								
SROUP 1	/CONT	BUI)						
11		5	6					
2		2	-1					•
13		4	10	25	35	68		•
14		5	5					
 15		9	11	17	31	65		
16	ŏ :	3	11					
7		4	12					
18		B	10					
19		4	9					
50		6	9	22	20	24	28	
	-	-			-			
ROUP 2			^	40	00	07	00	
51 52		8 2	3 3	19	22	37	30	
53		2 D	3 7					
54		7	11					
55		, 5	3	22	20	35	53	
56		5 6	4					
57		5	3					
57 58		5	7					
i9		5	14	22	42	83		
60		0	14					
	// 50 35	04(0)						
SROUP 3			•					
31 20			3					
52		D 3	10 6					
33			9					
34			7					
55 66			4					
57			10					
57 58		3	10					
i9			6					
0			11					
ROUP 4			0					
'1 '2			8					
2	-		13	14	12	24	24	
73			2 9	11	13	24	24	
4		-	9					
'5 'E			1					
'6 '7			5					
'7 '8	-	•	7					
8 '9			12	22	36	54		
9			16					
	0 7	,						

BODY WEIGHT GAIN (%) FEMALES F0-GENERATION

		ST C							CTAT
DAYS ANIMAL	0	4	7	11	14	17	20	1	4
GROUP 1	(CON	ITRO	L)						
41	0	7	_, 12	22	26	43	68	0	0
42	ŏ	9	14	25	30	49	75	ŏ	3
43								· ŏ	7
44	0	10	16	21	34	48	66	ŏ	7
45								ŏ	2
46	0	13	15	24	30	48	72	Ō	8
47	Ō	8	10	18	25	40	61	Õ	6
48	Ō	5	8	17	26	45	64	Ō	-1
49	Ŏ	9	15	19	29	43	65	Õ	10
	•	-						-	
GROUP 2	(50 N	IG/K	3)						
52	Ò	9	11	16	26	42	61	0	2
53	0	16	21	31	41	60	83	0	-6
54	0	7	12	18	28	49	72	0	4
56	0	9	13	23	30	39	48	0	-2
57	0	5	10	22	25	46	67	0	10
58	0	10	12	22	29	47	73	0	4
59								. 0	5
60	0	8	13	21	29	41	63	0	
CBOUR 2	/4EA	NG IV	'C\						
GROUP 3				10	25	42	e E	^	_
61 62	0	7	12 13	19 22	25 26	43 39	65 58	0	5 −1
	0	12 10	13	21	31		58 70	-	
63	0				33	44		0	5
64	0	8	16	28		47	77 55	0	11
65	0	4	7	6	17	34	55	0	1
66	0	6	8	19	27	48	69	0	6 -4
67	0	4	6	18	25	42	62	0	
68	0	6	14	20	31	47	74	0	8
69	0	8	7	14	20	38	59	0	9
70	0	4	6	12	22	38	59	0	5
CROUP 4	(500	NAC/4	(C)						
GROUP 4		10		24	27	36	43	0	6
71	0		18	27	29	38	43 50		-2
72 74	0	8 8	13 14	20	29 27	36 34	51	0	0
74 75 <io></io>	0	5	9	13	17	23	29	U	
75 <10>	0	3	7	13	16	23 26	41	0	6
77 <10>	Ö	7	12	21	26	32	41		
77 <10>	0	3	6	15	19	33	50	0	1
79			. 					. 0	-2
80	0	3	8	21	19	31	47	Ö	5
90	U	3	0	۷,	13	31	71	v	5

FOOD CONSUMPTION (G/ANIMAL/DAY) MALES

PRE MATING
DAYS 1-8 8-15
WEEKS 1-2 2-3
CAGE

GROUP 1 (CONTROL)
1 29 30
2 29 30

GROUP 2 (50 MG/KG)
3 28 29
4 28 29

GROUP 3 (150 MG/KG)5 28 30
6 29 30

GROUP 4 (500 MG/KG)7 29 32
8 28 33

FEMALES

PRE MATING
DAYS 1-8 8-15
WEEKS 1-2 2-3
CAGE

GROUP 1 (CONTROL) 9 20 20 10 19 20

GROUP 2 (50 MG/KG)11 19 20
12 20 20

GROUP 3 (150 MG/KG) 13 18 19 14 20 21

GROUP 4 (500 MG/KG) 15 20 23 16 18 21

FOOD CONSUMPTION (G/ANIMAL/DAY) FEMALES F0-GENERATION

	POS	COITL	JM				LACTATION
DAYS ANIMAL	0-4	4–7	7~11	11-14	14-17	17-20	1-4
GROUP 1	(CONT	ROL)					
41	` 28	25	30	31	34	37	39
42	21	22	29	26	39	31	28
43							37
44	25	23	24	34	31	31	33
45							29
46	25	24	22	23	33	35	44
47	26	23	24	29	31	29	40
48	22	22	24	27	32	33	30
49	23	24	24	28	28	29	31
43	23	24	24	20	20	23	31
GROUP 2							
52	24	24	28	30	31	36	44
53	29	29	29	28	34	33	55
54	24	22	26	37	31	34	34
56	20	21	27	29	32	29	28
57	20	19	27	27	32	33	38
58	22	22	23	45	32	36	25
59							56
60	28	26	24	31	34	40	
OBOUR A	/450 34	CIVO:					
GROUP 3			22	22	26	26	35
61	21	41	23	23	26	26	
62	25	22	23	24	29	30	78
63	22	21	25	30	26	29	31
64	23	25	27	27	29	34	69
65	21	20	20	22	25	28	46
66	20	18	25	27	32	29	29
67	21	21	27	27	30	33	27
68	21	22	25	27	29	32	27
69	24	22	21	23	32	29	52
70	23	21	25	31	28	30	29
CROUE 4	/E00 14	CIKC)					
GROUP 4			27	20	24	20	10
71	22	26	27	28	31	29	19
72	28	30	28	35	34	32	22
74	25	29	28	32	29	38	20
75 <io></io>	26	28	27	28	33	32	
76	19	20	23	25	27	31	23
77 <10>	38	22	23	27	31	32	
78	20	21	19	27	30	27	15
79							29
80	24	23	28	31	33	32	31

NOTOX Project 479003

RELATIVE FOOD CONSUMPTION (G/KG BODY WEIGHT/DAY) **MALES**

PRE MATING DAYS 1-8 8-15 1-2 2-3 **WEEKS** CAGE

GROUP 1 (CONTROL)

77 82 78 79

GROUP 2 (50 MG/KG)

76 81 76 79

GROUP 3 (150 MG/KG)

76 80 77 80

GROUP 4 (500 MG/KG)

80 89 77 89

FEMALES

PRE MATING DAYS 1-8 8-15 WEEKS 1-2 2-3 CAGE

GROUP 1 (CONTROL)

82 82 81 84 9 10

GROUP 2 (50 MG/KG)

11 12 78 81 83 86

GROUP 3 (150 MG/KG)

79 84 83 86

GROUP 4 (500 MG/KG)

84 95 77 92 15 16

RELATIVE FOOD CONSUMPTION (G/KG BODY WEIGHT/DAY) FEMALES F0-GENERATION

	POST	r coitu	JM				LACTATION	ı	
DAYS ANIMAL	0-4	4-7		11-14	14-17	17-20			
GROUP 1	(CONT	ROL)							
41	95	83	89	90	89	81	118		
42	81	81	98	84	108	75	94		
43							111		
44	92	83	81	104	87	78	110		
45							94		
46	93	89	75	74	93	85	132		
47	96	83	81	93	89	73	126		
48	78	75	77	82	82	76	92		
49	84	86	83	87	80	72	95		
GROUP 2	(50 MG	/KG)							
52	86	84	92	94	85	86	133	•	
53	98	94	85	77	83	70	156		
54	92	80	88	116	85	79	104		
56	79	80	94	95	98	82	96		
57	76	70	89	86	88	79	115		
58	81	83	76	146	89	87	78		
59							162		
60	96	87	76	91	90	93			
CBOUR 2	(450 PA	CIKC)							
GROUP 3 61	(1 50 IVI) 85	159	82	80	79	69	127		
62	88	77	62 74	77	84	77	238		
63	00 78	76	83	92	73	67	98		
64	76 87	76 87	83 87	92 84	73 81	80	203		
		81			82	79	165		
65 66	87 76	67	81 83	81 87	88	69	89		
66					81	78	83		
67	76	76	87	83		78 77			
68	84	82	88	86	82		87 470		
69	91	82	76 70	79	95	74	170		
70	80	69	78	92	73	68	86		
GROUP 4	(500 M								
71	` 79	89	87	88	92	81	61		
72	100	102	86	104	97	83	71		
74	88	98	89	95	81	95	62		
75 <10>	96	103	93	93	107	99			
76	77	77	84	90	89	90	79		
77 <10>	141	78	76	85	92	90			
78	82	82	69	95	95	76	55		
79							98		
80	93	85	90	105	99	88	97		

FUNCTIONAL OBSERVATIONS MALES TREATMENT

ANIMAL	HEARING SCORE 0/1	SCORE 0/1	PUPIL R SCORE 0/1	STATIC R SCORE 0/1	
	(CONTROL)				-
1	0	0	0	0	0
2	0	0	0	0	0
4	0	0	0	0	0
6	0	0	0	0	0
7	0	0	0	0	0
	(50 MG/KG)	_	_		
12	0	0	0	0	0
13	0	0	0	0	0
14	0	0	0	0	0
16	0	0	0	0	0
17	0	0	0	0	0
	(150 MG/KG)		_	_	
21	0	0	0	0	0
22	0	0	0	0	0
23	0	0	0	0	0
24	0	0	0	0	0
25	0	0	0	0	0
GROUP 4	(500 MG/KG)				
31	0	0	0	0	0
	•	0	0	0	0
32	0			^	0
	0	0	0	0	
34 35 36 FEMALE	0 0 0		0 0 0	0	0 0
34 35 36 FEMALE	0 0 0	0 0	0	0	0
32 34 35 36 FEMALE TREATM	0 0 0 ES MENT	0 0 0	0 0 PUPIL R	0 0 STATIC R	0 0 GRIP
34 35 36 FEMALE TREATM	0 0 0 ES MENT HEARING SCORE 0/1	0 0 0	0 0 PUPIL R	0 0 STATIC R	0 0 GRIP
34 35 36 FEMALE TREATM ANIMAL	0 0 0 ES MENT HEARING SCORE 0/1	0 0 0 PUPIL L SCORE 0/1	PUPIL R SCORE 0/1	STATIC R SCORE 0/1	GRIP SCORE 0/1
34 35 36 FEMALE TREATM ANIMAL GROUP 1	0 0 0 ES MENT HEARING SCORE 0/1 (CONTROL)	0 0 0 PUPIL L SCORE 0/1	PUPIL R SCORE 0/1	STATIC R SCORE 0/1	GRIP SCORE 0/1
34 35 36 FEMALE TREATN ANIMAL GROUP 1 42 44	0 0 0 0 ES MENT HEARING SCORE 0/1 (CONTROL) 0 0	O O O O O O O O O O O O O O O O O O O	PUPIL R SCORE 0/1	STATIC R SCORE 0/1	0 0 GRIP SCORE 0/1
34 35 36 FEMALE TREATN ANIMAL GROUP 1 42 44 45	0 0 0 ES MENT HEARING SCORE 0/1 (CONTROL) 0 0	PUPIL L SCORE 0/1	PUPIL R SCORE 0/1	STATIC R SCORE 0/1	0 0 GRIP SCORE 0/1
34 35 36 FEMALE TREATM ANIMAL GROUP 1 42 44 45 47	0 0 0 0 ES MENT HEARING SCORE 0/1 (CONTROL) 0 0 0	0 0 0 PUPIL L SCORE 0/1	PUPIL R SCORE 0/1	STATIC R SCORE 0/1	0 GRIP SCORE 0/1
34 35 36 FEMALE TREATM ANIMAL GROUP 1	0 0 0 ES MENT HEARING SCORE 0/1 (CONTROL) 0 0	PUPIL L SCORE 0/1	PUPIL R SCORE 0/1	STATIC R SCORE 0/1	0 0 GRIP SCORE 0/1
34 35 36 FEMALE TREATM ANIMAL GROUP 1 42 44 45 47 48 GROUP 2	0 0 0 0 ES MENT HEARING SCORE 0/1 (CONTROL) 0 0 0 0 0 0 0	0 0 0 0 PUPIL L SCORE 0/1	PUPIL R SCORE 0/1	STATIC R SCORE 0/1	0 0 GRIP SCORE 0/1
34 35 36 FEMALE TREATN ANIMAL GROUP 1 42 44 45 47 48 GROUP 2 52	O O O O O O O O O O O O O O O O O O O	0 0 0 0 PUPIL L SCORE 0/1	PUPIL R SCORE 0/1	STATIC R SCORE 0/1	0 0 GRIP SCORE 0/1
34 35 36 FEMALE TREATN ANIMAL ANIMAL GROUP 1 42 44 45 47 48 GROUP 2 52 53	O O O O O O O O O O O O O O O O O O O	0 0 0 0 PUPIL L SCORE 0/1	PUPIL R SCORE 0/1	STATIC R SCORE 0/1	0 GRIP SCORE 0/1
34 35 36 FEMALE TREATN ANIMAL GROUP 1 42 44 45 47 48 GROUP 2 52 53 54	0 0 0 0 ES MENT HEARING SCORE 0/1 (CONTROL) 0 0 0 0 0 0 0 0 0 0	0 0 0 0 PUPIL L SCORE 0/1	0 0 0 PUPIL R SCORE 0/1	STATIC R SCORE 0/1	GRIP SCORE 0/1
34 35 36 FEMALE TREATM ANIMAL GROUP 1 42 44 45 47 48 GROUP 2 52 53 54 54 58	O O O O O O O O O O O O O O O O O O O	0 0 0 0 PUPIL L SCORE 0/1	0 0 PUPIL R SCORE 0/1	0 0 0 STATIC R SCORE 0/1	0 0 GRIP SCORE 0/1
34 35 36 FEMALE TREATN ANIMAL GROUP 1 42 44 45 47 48 GROUP 2 52 53 54	0 0 0 0 ES MENT HEARING SCORE 0/1 (CONTROL) 0 0 0 0 0 0 0 0 0 0	0 0 0 0 PUPIL L SCORE 0/1	0 0 0 PUPIL R SCORE 0/1	STATIC R SCORE 0/1	GRIP SCORE 0/1
34 35 36 FEMALE TREATN ANIMAL ANIMAL GROUP 1 42 44 45 47 48 GROUP 2 52 53 54 59 GROUP 3	0 0 0 0 0 ES MENT HEARING SCORE 0/1 (CONTROL) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 PUPIL R SCORE 0/1	STATIC R SCORE 0/1	GRIP SCORE 0/1 0
34 35 36 FEMALE TREATN ANIMAL GROUP 1 42 44 45 47 48 GROUP 2 52 53 54 58 59 GROUP 3 62	0 0 0 0 0 ES MENT HEARING SCORE 0/1 (CONTROL) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 PUPIL L SCORE 0/1	0 0 0 PUPIL R SCORE 0/1	0 0 0 STATIC R SCORE 0/1	GRIP SCORE 0/1
34 35 36 FEMALE TREATN ANIMAL GROUP 1 42 44 45 47 48 GROUP 2 52 53 54 58 59 GROUP 3 62 63	0 0 0 0 0 0 MENT HEARING SCORE 0/1 (CONTROL) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 PUPIL L SCORE 0/1	0 0 0 PUPIL R SCORE 0/1	0 0 0 STATIC R SCORE 0/1	GRIP SCORE 0/1
34 35 36 FEMALE TREATN ANIMAL GROUP 1 42 44 45 47 48 GROUP 2 52 53 54 55 58 59 GROUP 3 62 63 64	0 0 0 0 1 ES MENT HEARING SCORE 0/1 (CONTROL) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 PUPIL R SCORE 0/1	0 0 0 STATIC R SCORE 0/1	GRIP SCORE 0/1
34 35 36 FEMALE TREATN ANIMAL GROUP 1 42 44 45 47 48 GROUP 2 52 53 54 58 59 GROUP 3 62 63	0 0 0 0 0 0 MENT HEARING SCORE 0/1 (CONTROL) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 PUPIL L SCORE 0/1	0 0 0 PUPIL R SCORE 0/1	0 0 0 STATIC R SCORE 0/1	GRIP SCORE 0/1

FUNCTIONAL OBSERVATIONS FEMALES TREATMENT

ANIMAL		NG PUPIL E 0/1 SCORE			CR GRIP E 0/1 SCORE 0/1	
	4 (500 MG	/KG)	0	0	٥	
71	Ü	0	Ü	Ü	0	
72	0	0	Ü	0	Ü	
74	0	0	0	0	0	
78	0	0	0	0	0	
79	0	0	0	0	0	
80	0	0	0	0	0	

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Dytek® DCH-99 APPENDIX 2

MOTOR ACTIVITY TEST

MALES WEEK 4

		Counts per	r sample	period (I	nour)									
Animal number	Location of sensor	1	2	3	4	5	6	7	8	9	10	11	12	Total
GROUP	1 (CONTROL)													
1	High	375	33	190	135	114	0	115	191	0	35	218	9	1415
1	Low	482	162	613	418	273	53	102	277	49	110	316	142	2997
2	High	159	57	230	229	138	204	106	228	94	121	338	51	1955
2	Low	399	296	439	696	656	541	476	331	241	309	516	243	5143
4	High	162	292	303	216	0	29	235	61	224	1	14	8	1545
4	Low	578	453	625	667	137	118	280	235	703	43	11	19	3869
6	High	66	89	279	189	84	11	341	96	126	239	504	299	2323
6	Low	300	396	499	307	66	141	838	156	249	557	559	328	4396
7	High	203	289	253	80	300	129	415	299	143	418	466	7	3002
7	Low	531	762	701	361	645	92	485	569	335	940	1068	50	6539
GROUP	2 (50 MG/KG)													
12	High	216	218	205	102	155	108	228	4	187	163	135	1	1722
12	Low	418	330	801	370	487	312	390	26	348	409	399	155	4445
13	High	100	8	94	73	6	0	9	2	87	37	20	73	509
13	Low	363	262	465	417	465	95	25	26	234	420	303	111	3186
14	High	92	72	51	126	115	113	0	112	23	220	238	112	1274
14	Low	123	343	393	720	367	592	75	270	382	565	399	414	4643
16	High	138	99	177	495	276	69	386	3	35	107	225	55	2065
16	Low	282	797	482	756	662	234	517	21	148	218	443	305	4865
17	High	297	261	667	465	475	395	1	78	413	388	566	0	4006
17	Low	422	578	498	397	585	456	35	141	379	851	537	57	4936
GROUP	3 (150 MG/KG)												
21	High	131	64	61	275	372	563	115	11	261	199	391	289	2732
21	Low	330	337	256	856	789	783	54	95	137	488	589	556	5270
22	High	273	170	174	674	280	352	547	5	18	69	420	26	3008
22	Low	554	612	476	526	94	289	699	64	64	234	759	123	449 4
23	High	248	180	133	35	48	255	304	200	152	249	202	140	2146
23	Low	467	265	237	32	264	612	586	305	144	444	339	562	4257
24	High	155	73	248	480	144	212	360	57	274	220	537	208	2968
24	Low	290	118	932	878	215	160	540	162	639	473	1036	330	5773
25	High	491	490	221	372	12	85	437	174	8	188	727	280	3485
25	Low	711	459	289	673	15	145	433	237	84	210	772	204	4232
GROUP	4 (500 MG/KG)												
31	High	78	0	233	256	237	152	114	238	165	363	283	158	227 7
31	Low	256	24	622	507	765	562	425	567	509	740	1263	632	6872
32	High	234	249	269	79	344	143	229	351	10	210	429	72	2619
32	Low	412	390	777	210	1074	1128	311	999	209	527	893	113	7043
34	High	199	27	60	103	270	248	504	17	57	303	244	198	2230
34	Low	229	196	591	642	456	427	506	97	123	465	521	185	4438
35	High	22	152	224	322	175	163	1	120	113	92	201	82	1667
35	Low	168	211	500	536	425	540	62	212	503	484	719	191	4551
36	High	182	66	138	93	254	110	147	178	83	527	446	294	2518
36	Low	657	264	227	356	532	396	280	81	92	396	632	425	4338

MOTOR ACTIVITY TEST

FEMALES LACTATION

										_		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
Animal	Location of	Counts pe	•		hour)									
number	sensor	1	2	3	4	5	6	7	8	9	10	11	12	Tota
GROUP	1 (CONTROL)													
42	High	4941	681	1676	674	0	1238	1305	45	6	1092	658	499	12815
42	Low	875	371	1021	317	3	910	431	18	63	229	5	244	4487
44	High	146	208	188	123	228	79	103	42	53	30	13	72	1285
44	Low	570	400	710	256	620	320	636	228	127	187	46	120	4220
45	High	19	18	2	192	156	92	136	19	104	27	0	0	765
45	Low	192	229	34	474	195	148	519	328	907	223	44	46	3339
47	High	17	88	136	162	113	0	343	4	1	93	2	0	959
47	Low	70	318	439	1025	447	73	740	0	9	376	37	1	3535
48	High	46	82	0	67	93	2	39	28	19	22	0	0	398
48	Low	403	513	123	450	811	55	599	559	355	233	32	93	4226
	2 (50 MG/KG)													
52	High	277	4	190	3	127	3	154	118	70	60	322	195	1523
52	Low	628	28	483	8	372	25	412	31	401	42	348	496	3274
53	High	0	30	62	54	94	0	115	0	99	14	101	11	580
53	Low	32	80	329	322	513	7	283	11	378	351	191	136	2633
54	High	107	41	0	161	211	129	2	94	47	0	148	13	953
54	Low	355	276	15	487	446	321	44	393	233	5	432	111	3118
58	High	155	163	186	171	162	156	36	0	198	16	9	47	1299
58	Low	603	702	587	691	530	653	235	7	1017	31	35	291	5382
59	High	83	112	38	138	165	73	77	6	242	8	68	26	1036
59	Low	548	871	259	833	765	400	636	70	1069	38	227	216	5932
	3 (150 MG/KG)	_				404			440	_		4.45	4.00	
62	High	0	67	130	51	101	0	78	112	0	35	140	103	817
62	Low	265	141	481	190	806	4	399	369	1	302	268	676	3902
63	High	1	82	243	58	187	0	165	189	148	78	106	0	1257
63	Low	7	131	643	264	698	95	560	468	296	191	282	1	3636
64	High	2	184	95	0	205	102	5	209	43	30	124	139	1138
64	Low	11	627	277	40	1073	72 55	32	1177	70	207	499	358	4443
66	High	120	58	333	66	301	55	324	111	13	163	24	169	1737
66	Low	157	7	565	86	807	203	880	244	42	242	15	324	3572
70	High	27	257	5 84	25 167	165 306	22 119	2 5	190 457	54 136	0 19	189 354	12 31	948 2191
70	Low	171	342	84	107	300	119	Э	457	130	19	334	31	2191
	4 (500 MG/KG)	4==			440	0.40	440	407	00	70	400		40	4.400
71	High	177	67	244	143	242	119	127	66	78	130	57	43	1493
71	Low	534	105	1101	494	1079	454 476	853 57	464	348	798	231	37	6498
72	High	319	78	170	123	193	176	57	65	168	133	109	32	1623
72	Low	1625	438	997	747	1186	843	374	256	919	490	507	308	8690
74	High	115	40	153	0	164	111	58	79	0	68	53	22	863
74	Low	1392	405	1849	0	1487	442	1023	835	26	530	502	284	8775
78	High	30	20	39	7	4	177	22	4	166	173	274	0	916
78	Low	117	139	163	47	125	277	141	56 740	2099	1754	164	700	5082
80	High	780	252	20	25	117	269	645	710	602	1386	1017	723	6546
80	Low	481	485	335	409	1255	771	825	217	501	455	350	337	6421

HAEMATOLOGY MALES END OF TREATMENT

ANIMAL	WBC 10E9/I	Neutrophils %WBC	Lymphocytes %WBC	Monocytes %WBC	Eosinophils %WBC	
GROUP 1	(CONTROL)					
1	6.8	20.6	72.4	4.7	1.6	
	10.7	16.0	78.0	5.0	1.0	
2 4	10.1	10.4	85.1	1.8	2.1	
6	10.6	26.0	67.0	5.0	2.0	
6 7	11.0	13.5	81.4	3.2	1.3	
GROUP 2	(50 MG/KG)					
12	7.8	15.6	79.9	2.8	1,1	
13	9.7	13.1	83.7	1.5	1.2	
14	9.4	15.1	81.9	1.4	1.1	
16	11.7	9.7	86.5	2.3	1.2	
17	12.6	11.8	84.4	2.3	1.2	
GROUP 3	(150 MG/KG)					
21	8.7	12.0	85.0	1.7	0.9	
22	7.6	13.8	81.1	2.5	2.1	
23	8.8	11.9	83.8	2.6	1.4	
24	10.2	13.9	81.8	2.8	1.1	
25	9.8	13.4	80.1	4.8	1.1	
GROUP 4	(500 MG/KG)					
31	10.6	14.7	82.7	1.9	0.3	
32	10.3	17.0	78.2	3.6	0.7	
34	9.1	14.0	83.4	1.7	0.5	
35	12.3	28.3	67.6	3.3	0.4	
36	10.7	13.0	80.0	7.0	0.0	

MALES END OF TREATMENT

ANIMAL	Basophils %WBC	Red blood cells 10E12/I	Reticulocytes %RBC	RDW %	Haemoglobin mmol/l	
GROUP 1	(CONTROL)					
1	0.7	8.20	2.9	11.6	9.5	
2	0.0	8.61	2.5	12.0	9.4	
4	0.5	8.40	2.6	12.3	9.8	
6	0.0	8.39	2.5	11.3	9.6	
6 7	0.6	8.42	4.0	12.0	10.2	
GROUP 2	(50 MG/KG)					
12	0.6	8.63	2.8	12.3	9.9	
13	0.5	7.97	3.8	12.8	9.3	
14	0.6	8.36	3.1	13.0	9.3	
16	0.3	8.26	3.0	11.6	10.2	
17	0.4	8.30	2.8	13.1	8.9	
GROUP 3	(150 MG/KG)					
21	0.4	8.45	3.3	12.3	9.7	
22	0.5	8.15	3.6	12.1	9.5	
23	0.2	9.05	2.4	12.8	9.7	
24	0.5	8.78	3.2	13.9	9.4	
25	0.5	8.19	3.2	12.2	9.5	

HAEMATOLOGY MALES END OF TREATMENT

ANIMAL	Basophils %WBC	Red blood cells 10E12/I	Reticulocytes %RBC	RDW %	Haemoglobin mmol/l	
GROUP 4	(500 MG/KG)					
31	0.3	8.20	3.6	13.5	9.6	
32	0.4	7.87	2.8	12.2	9.2	
34	0.4	7.80	3.9	13.7	9.5	
35	0.3	8.49	3.3	13.4	9.3	
36	0.0	8.22	3.3	12.3	9.9	
MALES END OF	TREATMENT	Γ		·		
					Photological Control of the Control	
ANIMAL	Haematocrit I/I	MCV fi	MCH fmol	MCHC mmol/l	Platelets 10E9/I	
GROUP 1	(CONTROL)				-	
1	0.425	51.8	1.16	22.39	1048	
2	0.420	48.8	1.09	22.42	747	
4	0.443	52.8	1.17	22.17	1127	
6	0.437	52.1	1.14	21.93	612	
7	0.469	55.7	1.21	21.78	972	
GROUP 2	(50 MG/KG)					
12	0.447	51.8	1.14	22.08	1034	
13	0.410	51.5	1.17	22.71	904	
14	0.419	50.2	1.12	22.29	1174	
16	0.447	54.1	1.23	22.73	986	
17	0.398	47.9	1.07	22.40	1180	
GROUP 3	(150 MG/KG)					
21	0.433	51.2	1.15	22.46	1046	
22	0.433	53.0	1.17	21.97	1039	
23	0.443	49.0	1.07	21.90	1043	
23 24	0.443	47.6	1.07	22.59	1119	
2 4 25	0.426	52.1	1.17	22.38	879	
	(500 MG/KG)	E1 2	1.17	22.78	799	
31	0.420	51.2	1.17	22.76	1310	
32	0.408	51.8 53.6		22.62	1047	
34	0.418	53.6	1.21		1062	
35 36	0.423 0.442	49.8 53.7	1.09 1.21	21.98 22.45	686	
MALES						
			·			
ANIMAL	PT	APTT				
	s	S				
GROUP 1	(CONTROL)					
1	17.6	11.5				
2	17.8	11.5				
4	19.7	14.3				
6	17.9	11.1				
7	18.2	10.1				
	10.2	10.1				

HAEMATOLOGY MALES END OF TREATMENT

ANIMAL	PT	APTT
	S	s
GROUP 2	(50 MG/KG)	
12	16.9	17.1
13	18.4	19.0
14	17.6	18.0
16	17.0	16.0
17	17.7	16.4
GROUP 3	(150 MG/KG)
21	17.4	11.5
22	18.5	19.1
23	18.6	16.7
24	17.9	17.3
25	17.4	13.8
GROUP 4	(500 MG/KG)
31	` 18.6	16.1
32	17.7	15.2
34	18.6	17.4
35	18.2	15.6
36	16.8	10.6

FEMALES END OF TREATMENT

ANIMAL	WBC 10E9/I	Neutrophils %WBC	Lymphocytes %WBC	Monocytes %WBC	Eosinophils %WBC
GROUP 1	(CONTROL)				
42	3.7	21.6	75.7	2.1	0.4
44	6.8	18.5	77.4	2.7	1.0
45	7.4	24.7	72.3	1.9	0.9
47	10.8	16.9	78.5	2.7	1,4
48	7.6	14.1	83.1	1.5	1.1
CBOUR 3	(50 MG/KG)				
52	5.5	18.0	79.0	3.0	0.0
53	3.5	31.0	64.0	5.0	0.0
54	6.4	20.2	76.6	1.5	1.5
58	3.3	21.0	74.0	2.0	3.0
59	6.3	17.2	79.4	2.1	0.9
00	0.0				V
GROUP 3	(150 MG/KG)				
62	`5.1	22.5	74.5	2.4	0.4
63	5.6	30.6	65.0	3.5	0.5
64	2.4	24.4	72.0	2.1	1.2
66	5.8	21.7	74.2	3.1	0.6
70	6.3	16.4	80.9	1.7	8.0
GROUP 4	(500 MG/KG)				
71	5.2	19.6	77.6	2.1	0.3
72	7.8	22.8	73.6	3.1	0.3
74	6.5	46.5	49.5	3.0	0.3
78	4.3	31.8	64.1	3.7	0.2
80	5.0	16.6	79.7	3.3	0.2
60	J.U	10.0	19.1	3.3	0.2

HAEMATOLOGY FEMALES FND OF TREATMENT

ANIMAL	Basophils %WBC	Red blood cells 10E12/l	Reticulocytes %RBC	RDW %	Haemoglobin mmol/l
	761120	102121			1711101/1
GROUP 1	(CONTROL)				
42	` 0.3	7.24	9.8	17.9	8.2
44	0.4	7.81	5.0	14.6	9.6
45	0.2	7.58	6.2	14.8	9.3
47	0.5	7.95	4.7	14.6	9.6
48	0.2	7.53	4.1	13.3	9.0
GROUP 2	(50 MG/KG)				
52	0.0	7.84	4.3	14.8	8.9
53	0.0	8.00	5.3	16.1	9.3
54	0.2	7.18	5.3	14.8	8.6
58	0.0	7.20	6.9	18.8	8.4
59	0.4	7.25	6.4	16.0	9.4
GROUP 3	(150 MG/KG)				
62	0.2	7.74	4.8	14.5	9.1
63	0.3	7.14	10.5	17.5	8.7
64	0.3	7.05	7.7	17.1	8.6
66	0.3	8.05	7.1	14.3	9.7
70	0.1	7.46	4.2	13.9	8.7
GROUP 4	(500 MG/KG)				
71	0.4	8.03	3.6	12.7	9.4
72	0.2	8.26	3.3	14.0	9.4
74	0.2	6.68	7.3	16.3	8.0
78	0.2	7.22	8.2	17.5	8.8
80	0.3	6.74	7.4	16.0	8.6
FEMAL	=e				
	TREATMENT	•			
ANIMAL	Haematocrit	MCV	MCH	МСНС	Platelets
WININGE	I/I	fl	fmol	mmol/l	10E9/I

LITE OI						
ANIMAL	Haematocrit I/I	MCV fl	MCH fmol	MCHC mmol/l	Platelets 10E9/I	
GROUP 1	(CONTROL)					
42	0.381	52.6	1.13	21.54	1460	
44	0.420	53.8	1.23	22.88	1323	
45	0.417	55.0	1.23	22.31	1499	
47	0.426	53.6	1.20	22.45	1418	
48	0.401	53.3	1.20	22.52	1011	
GROUP 2	(50 MG/KG)					
52	0.389	49.7	1.14	22.95	822	
53	0.419	52.4	1.17	22.29	1286	
54	0.388	54.1	1.20	22.10	1570	
58	0.387	53.7	1.17	21.84	1391	
59	0.420	57.9	1.30	22.45	930	
	(150 MG/KG)					
62	0.412	53.3	1.18	22.15	1016	
63	0.402	56.3	1.22	21.60	1364	
64	0.400	56.8	1,22	21.51	1285	
66	0.444	55.2	1.20	21.81	1472	
70	0.388	52.0	1.16	22.32	2058	

HAEMATOLOGY FEMALES END OF TREATMENT

ANIMAL	Haematocrit I/I	MCV fl	MCH fmol	MCHC mmol/l	Platelets 10E9/I	
GROUP 4	(500 MG/KG)					
71	0.418	52.1	1.17	22.43	1071	
72	0.416	50.3	1.14	22.58	1132	
74	0.370	55.4	1.19	21.56	1262	
78	0.404	55.9	1.22	21.91	1546	
80	0.378	56.1	1.28	22.78	1574	
FEMALE END OF	ES TREATMENT	•				
ANIMAL	PT	APTT				
ZIMINZE	S	S				
 						
GROUP 1	(CONTROL)					
42	16.8	17.0				
44	17.5	16.7				
45	17.7	17.5				
47	17.5	20.2				
48	17.4	18.6				
	(50 MG/KG)					
52	17.8	18.4				
53	16.2	14.3				
54	17.3	21.8				
58	15.6	12.9				
59	17.0	16.5				
GROUP 3	(150 MG/KG)					
62	` 17.3	16.1				
63	18.6	18.9				
64	17.0	19.8				
66	16.9	15.0				
70	16.5	13.2				
GROUP 4	(500 MG/KG)					
71	15.8	13.1				
72	18.3	20.1				
74	18.7	17.0				
78	19.4	22.1				
	18.0	15.0				

CLINICAL BIOCHEMISTRY MALES END OF TREATMENT

ANIMAL	ALAT U/I	ASAT U/I	ALP U/I	Total protein g/l	Albumin g/l	
GROUP 1	(CONTROL)					
1	`31.4	68.1	97	64.4	32.3	
2	42.5	83.3	145	62.9	31.0	
4	35.6	71.8	84	58.6	29.7	
6	36.7	75.2	86	63.5	30.9	
7	41.1	70.9	101	62.1	31.0	
GROUP 2	(50 MG/KG)					
12	`30.3	75.3	112	63.7	32.0	
13	34.5	70.8	101	61.3	30.7	
14	36.4	65.8	114	66.9	30.9	
16	51.0	77.6	120	63.4	31.5	
17	39.8	69.0	110	58.7	30.1	
GROUP 3	(150 MG/KG)					
21	43.0	73.0	120	61.4	31.0	
22	34.9	74.4	98	61.2	30.0	
23	64.8	75.8	115	68.3	33.1	
24	48.0	89.3	108	63.5	31.4	
25	38.8	81.4	125	62.7	30.4	
GROUP 4	(500 MG/KG)					
31	64.2	101.1	158	66.2	32.5	
32	62.7	92.0	140	61.1	31.5	
34	67.2	88.2	123	58.9	29.5	
35	69.8	108.3	182	64.0	30.8	
36	63.5	92.8	140	65.3	32.9	

MALES END OF TREATMENT

ANIMAL	Total bilirubin umol/l	Urea mmol/l	Creatinine umol/l	Glucose mmol/l	Cholesterol mmol/l	
GROUP 1	(CONTROL)					
1	2.2	6.6	42.1	7.50	1.84	
2	2.5	5.9	38.6	7.25	1.38	
4	2.5	6.7	39.3	8.48	1.59	
6	2.6	5.3	35.8	8.78	1.56	
6 7	2.3	6.6	39.3	8.29	1.24	
GROUP 2	(50 MG/KG)					
12	2.4	5.2	37.2	8.27	1.53	
13	2.8	5.8	38.6	9.30	1.65	
14	2.3	5.1	38.6	9.44	1.99	
16	3.2	7.4	38.6	6.96	2.39	
17	2.5	5.6	39.3	9.64	1.83	
GROUP 3	(150 MG/KG)					
21	2.6	7.3	40.0	6.23	1.76	
22	2.4	5.6	38.6	7.49	2.19	
23	2.6	7.0	35.8	9.27	2.23	
24	2.2	4.7	36.5	8.39	2.02	
25	3.1	5.2	36.5	10.37	2.00	

CLINICAL BIOCHEMISTRY MALES END OF TREATMENT

END OF	TREATMENT				
ANIMAL	Total bilirubin umol/l	Urea mmol/l	Creatinine umol/l	Glucose mmol/l	Cholesterol mmol/l
GROUP 4	(500 MG/KG)				
31	` 2.8	6.7	38.6	8.19	2.24
32	2.6	6.9	42.1	9.92	2.69
34	2.8	7.1	38.6	7.63	2.59
35	3.2	6.5	36.5	8.85	2.46
36	2.5	7.5	39.3	10.43	2.48
MALES END OF	TREATMENT				
	0 . !!		011 11		
ANIMAL	Sodium mmol/l	Potassium mmol/I	Chloride mmol/I	Calcium mmol/l	Inorg.Phos mmol/l
	(CONTROL)	4.44	402	0.00	0.04
1	141.4	4.11	103	2.80	2.34
2	143.1	3.98	103	2.74	2.44
4	142.5	4.39	104	2.67	2.54
6	142.9	4.19	104	2.79	2.52
7	142.3	4.62	103	2.74	2.86
	(50 MG/KG)		40=		
12	144.2	3.78	105	2.67	2.06
13	142.6	3.72	104	2.67	2.09
14	142.9	3.52	103	2.67	2.03
16	142.2	4.02	102	2.83	2.19
17	141.2	3.82	102	2.65	2.64
	(150 MG/KG)				
21	142.0	4.19	103	2.87	2.55
22	141.2	4.03	103	2.78	2.44
23	141.8	4.07	104	2.86	2.26
24	142.3	3.98	104	2.72	2.07
25	140.4	3.98	102	2.82	2.33
	(500 MG/KG)				
31	141.9	3.80	102	2.93	2.46
32	141.4	3.98	102	2.97	2.57
34	141.8	4.02	102	2.81	2.93
35	140.9	4.26	103	2.91	2.67
36	142.5	4.07	104	3.00	2.83
FEMALI END OF	ES TREATMENT				
ANIMAL	ALAT	ASAT	ALP	Total protein	Albumin
VIAIIAIVE	U/I	U/I	U/I	g/l	g/l
GROUP 1	(CONTROL)				
42	65.8	87.6	100	61.1	30.1
44	52.8	71.7	83	64.1	31.2
45	62.3	72.8	71	66.1	31.4
47	53.3	68.7	55	62.1	30.5
48	56.2	75.0	82	60.6	30.0
70	JU.E	70.0	V2	00.0	30.0

CLINICAL BIOCHEMISTRY FEMALES END OF TREATMENT

ANIMAL	ALAT U/I	ASAT U/I	ALP U/I	Total protein g/l	Albumin g/l	
GROUP 2	(50 MG/KG)					
52	53.8	75.6	84	69.1	32.8	
53	65.1	95.1	73	62.4	30.3	
54	76.4	62.8	126	62.0	30.2	
58	45.5	73.3	96	63.2	31.4	
59	48.7	64.5	77	65.5	31.9	
GROUP 3	(150 MG/KG)					
62	`52.8 ´	67.5	165	61.6	30.6	
63	47.7	83.5	68	65.6	32.6	
64	51.1	70.9	42	64.4	32.7	
66	45.6	72,1	59	65.1	32.4	
70	55.9	64.4	95	64.9	32.8	
GROUP 4	(500 MG/KG)					
71	`64.7	89.9	66	63.5	32.4	
72	53.0	94.4	61	60.4	31.5	
74	70.5	107.5	90	60.6	30.7	
78	53.4	81.0	46	61.7	32.0	
80	83.5	107.3	88	61.4	31.7	

FEMALES END OF TREATMENT

ANIMAL	Total bilirubin umol/l	Urea mmol/l	Creatinine umol/l	Glucose mmol/l	Cholesterol mmol/l
GROUP 1	(CONTROL)				
42	2.5	7.4	42.7	8.04	1,49
44	2.6	7.4	39.3	6.73	1.37
45	2.6	8.4	41.9	5.94	1.57
47	2.3	7.1	45.3	8.48	1.63
48	2.8	7.1	45.3	8.51	1.70
	(50 MG/KG)	6.0	38.9	6.15	1.09
52	2.5	7.8	36.9 46.4	6.31	2.13
53	1.8		43.3	6.13	1.67
54 50	2.3	8.4	43.3 37.1	8.06	1.50
58	2.3	6.7	37.1 45.9	8.53	1.39
59	2.7	7.7	45.9	0.03	1.39
GROUP 3	(150 MG/KG)				
62	2.6	7.9	43.8	7.72	1.69
63	2.7	6.9	46.1	6.70	0.91
64	2.7	6.1	45.1	8.81	1.70
66	3.2	4.2	41.3	8.28	1.35
70	3.7	7.4	43.3	5.49	1.45
CDUID 4	(500 MG/KG)				
3800F 4 71	3.1	6.1	42.7	7.15	1.68
71 72	4.1	7.0	40.6	7.77	1.14
74	2.1	7.5	43.4	6.65	0.91
7 4 78	2.6	7.5 7.1	39.3	6.73	1.19
80	3.2	7.2	43.9	6.88	1.43

CLINICAL BIOCHEMISTRY FEMALES END OF TREATMENT

GROUP 1 (CONTROL) 42	ANIMAL	Sodium mmol/l	Potassium mmol/l	Chloride mmol/l	Calcium mmol/l	Inorg.Phos mmol/I
42	GROUP 1	(CONTROL)				
45			3.81	100	2.50	1.80
47 137.6 3.80 98 2.65 1.65 48 139.2 3.70 100 2.56 2.14 GROUP 2 (50 MG/KG) 52 137.0 4.07 99 2.64 1.70 53 140.3 2.52 98 2.51 2.20 54 139.2 3.95 101 2.59 2.33 58 136.8 3.70 98 2.56 1.89 59 138.2 4.05 100 2.58 1.89 GROUP 3 (150 MG/KG) 62 137.3 3.55 98 2.55 2.37 63 137.3 3.00 97 2.60 1.82 64 139.0 2.80 96 2.60 1.87 66 135.5 3.48 97 2.65 1.66 70 138.8 3.73 101 2.76 2.10 GROUP 4 (500 MG/KG) 71 136.3 3.89 99 2.81 2.58 72 136.6 3.99 100 2.73 2.05 74 136.4 3.93 101 2.63 2.17 78 139.5 3.70 101 2.82 1.82	44	136.1	4.17	99	2.61	1.76
48 139.2 3.70 100 2.56 2.14 GROUP 2 (50 MG/KG) 52 137.0 4.07 99 2.64 1.70 53 140.3 2.52 98 2.51 2.20 54 139.2 3.95 101 2.59 2.33 58 136.8 3.70 98 2.56 1.89 59 138.2 4.05 100 2.58 1.89 GROUP 3 (150 MG/KG) 62 137.3 3.55 98 2.55 2.37 63 137.3 3.00 97 2.60 1.82 64 139.0 2.80 96 2.60 1.87 66 135.5 3.48 97 2.65 1.66 70 138.8 3.73 101 2.76 2.10 GROUP 4 (500 MG/KG) 71 136.3 3.89 99 2.81 2.58 72 136.6 3.99 100 2.73 2.05 74 136.4 3.93 101 2.63 2.17 78 139.5 3.70 101 2.82 1.82	45	137.7	3.43	101	2.57	2.01
GROUP 2 (50 MG/KG) 52 137.0 4.07 99 2.64 1.70 53 140.3 2.52 98 2.51 2.20 54 139.2 3.95 101 2.59 2.33 58 136.8 3.70 98 2.56 1.89 59 138.2 4.05 100 2.58 1.89 GROUP 3 (150 MG/KG) 62 137.3 3.55 98 2.55 2.37 63 137.3 3.00 97 2.60 1.82 64 139.0 2.80 96 2.60 1.87 66 135.5 3.48 97 2.65 1.66 70 138.8 3.73 101 2.76 2.10 GROUP 4 (500 MG/KG) 71 136.3 3.89 99 2.81 2.58 72 136.6 3.99 100 2.73 2.05 74 136.4 3.93 101 2.63 2.17 78 139.5 3.70 101 2.82 1.82	47	137.6	3.80	98	2.65	1.65
52 137.0 4.07 99 2.64 1.70 53 140.3 2.52 98 2.51 2.20 54 139.2 3.95 101 2.59 2.33 58 136.8 3.70 98 2.56 1.89 59 138.2 4.05 100 2.58 1.89 GROUP 3 (150 MG/KG) 62 137.3 3.55 98 2.55 2.37 63 137.3 3.00 97 2.60 1.82 64 139.0 2.80 96 2.60 1.87 66 135.5 3.48 97 2.65 1.66 70 138.8 3.73 101 2.76 2.10 GROUP 4 (500 MG/KG) 71 136.3 3.89 99 2.81 2.58 72 136.6 3.99 100 2.73 2.05 74 136.4 3.93 101 2.63 2.17 78 139.5 3.70 101 2.82 1.82	48	139.2	3.70	100	2.56	2.14
52 137.0 4.07 99 2.64 1.70 53 140.3 2.52 98 2.51 2.20 54 139.2 3.95 101 2.59 2.33 58 136.8 3.70 98 2.56 1.89 59 138.2 4.05 100 2.58 1.89 GROUP 3 (150 MG/KG) 62 137.3 3.55 98 2.55 2.37 63 137.3 3.00 97 2.60 1.82 64 139.0 2.80 96 2.60 1.87 66 135.5 3.48 97 2.65 1.66 70 138.8 3.73 101 2.76 2.10 GROUP 4 (500 MG/KG) 71 136.3 3.89 99 2.81 2.58 72 136.6 3.99 100 2.73 2.05 74 136.4 3.93 101 2.63 2.17 78 139.5 3.70 101 2.82 1.82	GROUP 2	(50 MG/KG)				
54 139.2 3.95 101 2.59 2.33 58 136.8 3.70 98 2.56 1.89 59 138.2 4.05 100 2.58 1.89 GROUP 3 (150 MG/KG) 62 137.3 3.55 98 2.55 2.37 63 137.3 3.00 97 2.60 1.82 64 139.0 2.80 96 2.60 1.87 66 135.5 3.48 97 2.65 1.66 70 138.8 3.73 101 2.76 2.10 GROUP 4 (500 MG/KG) 71 136.3 3.89 99 2.81 2.58 72 136.6 3.99 100 2.73 2.05 74 136.4 3.93 101 2.63 2.17 78 139.5 3.70 101 2.82 1.82			4.07	99	2.64	1.70
58 136.8 3.70 98 2.56 1.89 59 138.2 4.05 100 2.58 1.89 GROUP 3 (150 MG/KG) 62 137.3 3.55 98 2.55 2.37 63 137.3 3.00 97 2.60 1.82 64 139.0 2.80 96 2.60 1.87 66 135.5 3.48 97 2.65 1.66 70 138.8 3.73 101 2.76 2.10 GROUP 4 (500 MG/KG) 71 136.3 3.89 99 2.81 2.58 72 136.6 3.99 100 2.73 2.05 74 136.4 3.93 101 2.63 2.17 78 139.5 3.70 101 2.82 1.82	53	140.3	2.52	98	2.51	2.20
58 136.8 3.70 98 2.56 1.89 59 138.2 4.05 100 2.58 1.89 GROUP 3 (150 MG/KG) 62 137.3 3.55 98 2.55 2.37 63 137.3 3.00 97 2.60 1.82 64 139.0 2.80 96 2.60 1.87 66 135.5 3.48 97 2.65 1.66 70 138.8 3.73 101 2.76 2.10 GROUP 4 (500 MG/KG) 71 136.3 3.89 99 2.81 2.58 72 136.6 3.99 100 2.73 2.05 74 136.4 3.93 101 2.63 2.17 78 139.5 3.70 101 2.82 1.82	54	139.2	3.95	101	2.59	2.33
GROUP 3 (150 MG/KG) 62 137.3 3.55 98 2.55 2.37 63 137.3 3.00 97 2.60 1.82 64 139.0 2.80 96 2.60 1.87 66 135.5 3.48 97 2.65 1.66 70 138.8 3.73 101 2.76 2.10 GROUP 4 (500 MG/KG) 71 136.3 3.89 99 2.81 2.58 72 136.6 3.99 100 2.73 2.05 74 136.4 3.93 101 2.63 2.17 78 139.5 3.70 101 2.82 1.82	58	136.8	3.70	98	2.56	
62 137.3 3.55 98 2.55 2.37 63 137.3 3.00 97 2.60 1.82 64 139.0 2.80 96 2.60 1.87 66 135.5 3.48 97 2.65 1.66 70 138.8 3.73 101 2.76 2.10 GROUP 4 (500 MG/KG) 71 136.3 3.89 99 2.81 2.58 72 136.6 3.99 100 2.73 2.05 74 136.4 3.93 101 2.63 2.17 78 139.5 3.70 101 2.82 1.82	59	138.2	4.05	100	2.58	1.89
62 137.3 3.55 98 2.55 2.37 63 137.3 3.00 97 2.60 1.82 64 139.0 2.80 96 2.60 1.87 66 135.5 3.48 97 2.65 1.66 70 138.8 3.73 101 2.76 2.10 GROUP 4 (500 MG/KG) 71 136.3 3.89 99 2.81 2.58 72 136.6 3.99 100 2.73 2.05 74 136.4 3.93 101 2.63 2.17 78 139.5 3.70 101 2.82 1.82	GROUP 3	(150 MG/KG)				
64 139.0 2.80 96 2.60 1.87 66 135.5 3.48 97 2.65 1.66 70 138.8 3.73 101 2.76 2.10 GROUP 4 (500 MG/KG) 71 136.3 3.89 99 2.81 2.58 72 136.6 3.99 100 2.73 2.05 74 136.4 3.93 101 2.63 2.17 78 139.5 3.70 101 2.82 1.82			3.55	98	2.55	2.37
66 135.5 3.48 97 2.65 1.66 70 138.8 3.73 101 2.76 2.10 GROUP 4 (500 MG/KG) 71 136.3 3.89 99 2.81 2.58 72 136.6 3.99 100 2.73 2.05 74 136.4 3.93 101 2.63 2.17 78 139.5 3.70 101 2.82 1.82	63	137,3	3.00	97	2.60	1.82
66 135.5 3.48 97 2.65 1.66 70 138.8 3.73 101 2.76 2.10 GROUP 4 (500 MG/KG) 71 136.3 3.89 99 2.81 2.58 72 136.6 3.99 100 2.73 2.05 74 136.4 3.93 101 2.63 2.17 78 139.5 3.70 101 2.82 1.82	64	139.0	2.80	96	2.60	1.87
GROUP 4 (500 MG/KG) 71 136.3 3.89 99 2.81 2.58 72 136.6 3.99 100 2.73 2.05 74 136.4 3.93 101 2.63 2.17 78 139.5 3.70 101 2.82 1.82		135.5	3.48	97	2.65	1.66
71 136.3 3.89 99 2.81 2.58 72 136.6 3.99 100 2.73 2.05 74 136.4 3.93 101 2.63 2.17 78 139.5 3.70 101 2.82 1.82	70	138.8	3.73	101	2.76	2.10
71 136.3 3.89 99 2.81 2.58 72 136.6 3.99 100 2.73 2.05 74 136.4 3.93 101 2.63 2.17 78 139.5 3.70 101 2.82 1.82	GROUP 4	(500 MG/KG)				
72 136.6 3.99 100 2.73 2.05 74 136.4 3.93 101 2.63 2.17 78 139.5 3.70 101 2.82 1.82			3.89	99	2.81	2.58
74 136.4 3.93 101 2.63 2.17 78 139.5 3.70 101 2.82 1.82						
78 139.5 3.70 101 2.82 1.82						
	78		3.70	101		

MACROSCOPIC FINDINGS MALES ALL NECROPSIES

ANIM	AL ORGAN	FINDING	DAY OF DEATH
GRO	UP 1 (CONTROL)		
1	•	No findings noted	Scheduled sacrifice, 08Feb2007
2		No findings noted	Scheduled sacrifice, 08Feb2007
3		No findings noted	Scheduled sacrifice, 08Feb2007
4		No findings noted	Scheduled sacrifice, 08Feb2007
5	Kidneys	Right side: pelvic dilation.	Scheduled sacrifice, 08Feb2007
6	Bone	Tail apex: bent.	Scheduled sacrifice, 08Feb2007
7		No findings noted	Scheduled sacrifice, 08Feb2007
8		No findings noted	Scheduled sacrifice, 08Feb2007
9		No findings noted	Scheduled sacrifice, 08Feb2007
10		No findings noted	Scheduled sacrifice, 08Feb2007
GRO	UP 2 (50 MG/KG)		
11		No findings noted	Scheduled sacrifice, 08Feb2007
12		No findings noted	Scheduled sacrifice, 08Feb2007
13		No findings noted	Scheduled sacrifice, 08Feb2007
14		No findings noted	Scheduled sacrifice, 08Feb2007
15	Bone	Tail apex: bent.	Scheduled sacrifice, 08Feb2007
16		No findings noted	Scheduled sacrifice, 08Feb2007
17		No findings noted	Scheduled sacrifice, 08Feb2007
18		No findings noted	Scheduled sacrifice, 08Feb2007
19		No findings noted	Scheduled sacrifice, 08Feb2007
20	Seminal vesicles	Right side: reduced in size.	Scheduled sacrifice, 08Feb2007
GRO	JP 3 (150 MG/KG)		
21		No findings noted	Scheduled sacrifice, 08Feb2007
22		No findings noted	Scheduled sacrifice, 08Feb2007
23		No findings noted	Scheduled sacrifice, 08Feb2007
24		No findings noted	Scheduled sacrifice, 08Feb2007
25		No findings noted	Scheduled sacrifice, 08Feb2007
26		No findings noted	Scheduled sacrifice, 08Feb2007
27		No findings noted	Scheduled sacrifice, 08Feb2007
28		No findings noted	Scheduled sacrifice, 08Feb2007
29		No findings noted	Scheduled sacrifice, 08Feb2007
30	Seminal vesicles	Left side: reduced in size.	Scheduled sacrifice, 08Feb2007
GRO	JP 4 (500 MG/KG)		
31	Liver	Discolouration, pale.	Scheduled sacrifice, 08Feb2007
32		No findings noted	Scheduled sacrifice, 08Feb2007
33	Liver	Discolouration, pale.	Scheduled sacrifice, 08Feb2007
34		No findings noted	Scheduled sacrifice, 08Feb2007
35	Liver	Discolouration, pale.	Scheduled sacrifice, 08Feb2007
36	Liver	Discolouration, pale.	Scheduled sacrifice, 08Feb2007
37		No findings noted	Scheduled sacrifice, 08Feb2007
38		No findings noted	Scheduled sacrifice, 08Feb2007
39		No findings noted	Scheduled sacrifice, 08Feb2007
40	Liver	Discolouration, pale.	Scheduled sacrifice, 08Feb2007
	ALES NECROPSIES		
ANIM	AL ORGAN	FINDING	DAY OF DEATH
	JP 1 (CONTROL)	FINDING	DAY OF DEATH
41	•	No findings noted	Scheduled sacrifice, 22Feb2007
42	Mandibular I.node	Right side: discolouration, dark red.	Scheduled sacrifice, 21Feb2007
43		No findings noted	Scheduled sacrifice, 19Feb2007
44		No findings noted	Scheduled sacrifice, 20Feb2007
45		No findings noted	Scheduled sacrifice, 20Feb2007
46		No findings noted	Scheduled sacrifice, 19Feb2007
47	Mandibular I.node	Both sides: discolouration, dark red.	Scheduled sacrifice, 20Feb2007
			······································

MACROSCOPIC FINDINGS FEMALES ALL NECROPSIES

ANIM	AL ORGAN	FINDING	DAY OF DEATH
	JP 1 (CONTROL)		
48		No findings noted	Scheduled sacrifice, 20Feb2007
49		No findings noted	Scheduled sacrifice, 21Feb2007
50		No findings noted	Scheduled sacrifice, 21Feb2007
	JP 2 (50 MG/KG)		
51	Uterus	Enlarged. Contains fluid.	Scheduled sacrifice, 21Feb2007
	Cervix	Enlarged.	
52		No findings noted	Scheduled sacrifice, 22Feb2007
53	Adrenal glands	Both sides: enlarged.	Scheduled sacrifice, 19Feb2007
54		No findings noted	Scheduled sacrifice, 20Feb2007
55		No findings noted	Scheduled sacrifice, 21Feb2007
56		No findings noted	Scheduled sacrifice, 22Feb2007
57		No findings noted	Scheduled sacrifice, 22Feb2007
58		No findings noted	Scheduled sacrifice, 19Feb2007
59	Skin	Hindleg, right side: alopecia.	Scheduled sacrifice, 20Feb2007
60	Stomach	Contents: reddish.	Other, 15Feb2007
GROL	JP 3 (150 MG/KG)		
61	,	No findings noted	Scheduled sacrifice, 22Feb2007
62		No findings noted	Scheduled sacrifice, 19Feb2007
63		No findings noted	Scheduled sacrifice, 21Feb2007
64		No findings noted	Scheduled sacrifice, 19Feb2007
65		No findings noted	Scheduled sacrifice, 19Feb2007
66	Liver	Right lateral lobe: diaphragmatic Hernia.	Scheduled sacrifice, 21Feb2007
67		No findings noted	Scheduled sacrifice, 21Feb2007
68		No findings noted	Scheduled sacrifice, 21Feb2007
69		No findings noted	Scheduled sacrifice, 19Feb2007
70		No findings noted	Scheduled sacrifice, 20Feb2007
GROU	JP 4 (500 MG/KG)		
71	Mandibular I.node	Right side: discolouration, dark red.	Scheduled sacrifice, 21Feb2007
72	Lungs	Focus/foci, many, gray-white.	Scheduled sacrifice, 20Feb2007
73	ŭ	No findings noted	Scheduled sacrifice, 21Feb2007
74	Lungs	Focus/foci, many, gray-white.	Scheduled sacrifice, 21Feb2007
75	•	No findings noted	Scheduled sacrifice, 21Feb2007
76		No findings noted	Scheduled sacrifice, 21Feb2007
77		No findings noted	Scheduled sacrifice, 21Feb2007
78	Lungs	Focus/foci, many, gray-white.	Scheduled sacrifice, 20Feb2007
79	•	No findings noted	Other, 17Feb2007
80	Lungs	Focus/foci, many, gray-white.	Scheduled sacrifice, 20Feb2007

ORGAN WEIGHTS (GRAM) MALES END OF TREATMENT

ANIMAL	BODY W.	BRAIN	HEART	LIVER	THYMUS	
MINIMAL	(GRAM)	(GRAM)	(GRAM)	(GRAM)	(GRAM)	
	(0.0 111)	(0.0 (11)	(Crown)	(Crown)	(CIVIIII)	
GROUP 1	(CONTROL)	•				
1	451	2.03	1.348	12.08	0.619	
2	413	2.02	1.319	10.65	0.324	
3	444					
4	410	1.89	1.149	9.95	0.417	
5	421					
6	437	2.13	1.240	11.73	0.532	
7	451	2.14	1.259	12.94	0.445	
8	397					
9	380					
10	437					
GROUP 2	(50 MG/KG)					
11	453					
12	407	2.21	1.273	10.47	0.334	
13	410	2.03	1.285	10.75	0.338	
14	420	2.13	1.257	10.65	0.369	
15	381					
16	395	2.20	1.405	10.41	0.450	
17	410	2.11	1.391	9.82	0.269	
18	408					
19	422		****			
20	458					
GROUP 3	(150 MG/KG)					
21	411	2.25	1.389	11.26	0.405	
22	459	2.11	1.490	11.30	0.556	
23	375	1.95	1.212	9.74	0.236	
24	386	2.11	1.203	9.23	0.311	
25	464	2.01	1.447	13.12	0.386	
26	400					
27	455					
28	425					
29	396				60 110 U 0	
30	388			***		
GROUP 4	(500 MG/KG)					
31	412	2.15	1.405	12.49	0.242	
32	410	2.11	1.380	11.50	0.347	
33	410	2.11	1.500			
34	408	2.07	1.453	12.90	0.284	
35	381	2.06	1.446	12.98	0.305	
36		2.08	1.398	12.44	0.303	
36 37	384 391	2.00	1.330	12.44	U.Z40 	
38	411					
39	393 439					
40	428					

ORGAN WEIGHTS (GRAM) MALES END OF TREATMENT

ANIMAL	KIDNEYS (GRAM)	ADRENALS (GRAM)	SPLEEN (GRAM)	TESTES (GRAM)	EPIDIDYMIDES (GRAM)
GROUP 1	(CONTROL)				
1	3.00	0.068	1.052	3.48	1.054
2	3.29	0.070	1.096	4.51	1.448
3				4.10	1.357
4	2.82	0.068	0.781	3.83	1.167
5		BT 410 No.		4.34	1.224
6	3.17	0.046	1.219	3.92	1.181
7	3.50	0.085	1.250	4.01	1.229
8				4.10	1.142
9				3.86	1.344
10				4.25	1.353
GROUP 2	(50 MG/KG)				
11				3.66	1.351
12	3.20	0.067	0.937	4.14	1.187
13	2.93	0.073	0.938	3.79	1.150
14	2.96	0.087	0.841	3.70	1,262
15				3.62	1.209
16	3.00	0.058	1.086	3.60	1.290
17	3.54	0.066	0.816	3.01	1.024
18				3.72	1.284
19				3.92	1.313
20				3.78	1.199
GROUP 3	(150 MG/KG)				
21	2.82	0.076	1.072	3.58	1.182
22	3.63	0.064	1.084	4.18	1.248
23	2.96	0.059	0.846	3.64	1.124
24	2.88	0.079	0.889	3.49	1.163
25	3.19	0.074	1.223	4.30	1.242
26				3.86	1.074
27				3.69	1.157
28				3.79	1.176
29				4.21	1.166
30				3.70	1.158
CBUID 4	(500 MG/KG)				
31	3.19	0.085	0.866	3.74	1.013
32	3.13	0.082	1.013	3.99	0.909
32 33	3.13 	0.062	1.013	3.99 3.97	1.058
33 34	3.48	0.085	0.913	4.22	1.032
3 4 35		0.085		4.22 3.58	
36	3.09		0.835		1.021
37	2.88	0.062	0.820	3.83	0.995
				3.87	0.886
38 30				4.57	1.148
39 40				3.84	1.172
40				4.35	1.124

ORGAN/BODY WEIGHT RATIOS (%) MALES END OF TREATMENT

ANIMAL	DODY W	DDAIN	LIFADT	10/50	7104410	
ANIIVIAL	BODY W.	BRAIN	HEART	LIVER	THYMUS	
_	(GRAM)	(%)	(%)	(%)	(%)	
GROUP 1	(CONTROL)					
1	` 451	0.45	0.299	2.68	0.137	
2	413	0.49	0.319	2.58	0.078	
3	444					
4	410	0.46	0.280	2.43	0.102	
5	421				*****	
6	437	0.49	0.284	2.68	0.122	
7	451	0.47	0.279	2.87	0.099	
8	397				0.000	
9	380					
10	437					
10	407					
	(50 MG/KG)					
11	453					
12	407	0.54	0.313	2.57	0.082	
13	410	0.49	0.313	2.62	0.082	
14	420	0.51	0.299	2.53	0.088	
15	381					
16	395	0.56	0.356	2.63	0.114	
17	410	0.51	0.339	2.39	0.066	
18	408					
19	422					
20	458					
GROUP 3	(150 MG/KG)					
21	411	0.55	0.338	2.74	0.099	
22	459	0.46	0.325	2.46	0.121	
23	375	0.52	0.323	2.60	0.063	
24	386	0.55	0.312	2.39	0.081	
25	464	0.43	0.312	2.83	0.083	
26	400					
27	455					
28	425					
29	396					
30	388					
CBUID 4	(500 MG/KG)					
31	412	0.52	0.341	3.03	0.059	
32	410	0.52 0.51				
32 33	410	0.51	0.337	2.80 	0.085	
33 34					0.070	
	408	0.51	0.356	3.16	0.070	
35	381	0.54	0.380	3.41	0.080	
36	384	0.54	0.364	3.24	0.065	
37	391					
38	411					
39	393					
40	428					

ORGAN/BODY WEIGHT RATIOS (%) MALES END OF TREATMENT

ANIMAL	KIDNEYS (%)	ADRENALS (%)	SPLEEN (%)	TESTES (%)	EPIDIDYMIDES (%)
GROUP 1	(CONTROL)				
1	0.66	0.015	0.233	0.77	0.234
2	0.80	0.017	0.265	1.09	0.351
3				0.92	0.306
4	0.69	0.017	0.190	0.93	0.285
5				1.03	0.291
6	0.72	0.011	0.279	0.90	0.270
7	0.78	0.019	0.277	0.89	0.273
8 9				1.03	0.288
10				1.02	0.354
10				0.97	0.310
GROUP 2	(50 MG/KG)				
11				0.81	0.298
12	0.79	0.016	0.230	1.02	0.292
13	0.71	0.018	0.229	0.93	0.280
14	0.70	0.021	0.200	0.88	0.300
15				0.95	0.317
16	0.76	0.015	0.275	0.91	0.327
17	0.86	0.016	0.199	0.73	0.250
18				0.91	0.315
19 20				0.93	0.311
20				0.83	0.262
GROUP 3	(150 MG/KG)				
21	0.69	0.018	0.261	0.87	0.288
22	0.79	0.014	0.236	0.91	0.272
23	0.79	0.016	0.226	0.97	0.300
24	0.75	0.020	0.230	0.90	0.301
25	0.69	0.016	0.264	0.93	0.268
26				0.97	0.269
27				0.81	0.254
28 29				0.89	0.277
29 30				1.06 0.95	0.294 0.298
30				0.53	0.290
GROUP 4	(500 MG/KG)				
31	0.77	0.021	0.210	0.91	0.246
32	0.76	0.020	0.247	0.97	0.222
33				0.97	0.258
34	0.85	0.021	0.224	1.04	0.253
35	0.81	0.020	0.219	0.94	0.268
36	0.75	0.016	0.214	1.00	0.259
37				0.99	0.227
38				1.11	0.279
39				0.98	0.298
40				1.02	0.263

ORGAN WEIGHTS (GRAM) FEMALES END OF TREATMENT

ANIMAL	BODY W. (GRAM)	BRAIN (GRAM)	HEART (GRAM)	LIVER (GRAM)	THYMUS (GRAM)	
	(CONTROL)					
41	047		0.075	0.40	0.400	
42 43	247	2.00	0.975	9.46 	0.183	
43 44	262	1.88	0.902	9.21	0.253	
45	271	1.85	0.925	8.99	0.190	
46	Z/ I		0.925		U. 10U	
47	276	1.93	0.906	8.74	0.298	
48	285	1.89	1.043	9.71	0.216	
49			-			
50						
GROUP 2	(50 MG/KG)					
51	` ′					
52	280	2.01	1.067	9.94	0.229	
53	299	1.94	1.029	10.63	0.203	
54	281	1.88	0.904	10.02	0.192	
55						
56						
57						
58	269	1.84	1.025	9.85	0.179	
59	299	1.88	1.001	10.70 	0.327	
60						
GROUP 3 61	(150 MG/KG)					
62	292	1.99	0.981	9.60	0.228	
63	271	1.85	0.955	9.31	0.196	
64	282	1.85	1.086	11.19	0.185	
65						
66	270	1.80	1.046	9.60	0.195	
67						
68						
69		en es en				
70	302	1.95	0.995	9.54	0.199	
	(500 MG/KG)					
71	263	1.86	1.064	9.40	0.177	
72	282	1.86	1.037	8.72	0.166	
73		4.00	4.440	0.50	0.140	
74 75	291	1.92	1.142	9.58	0.149	
75 76						
76 77						
78	246	1.80	1.040	8.65	0,116	
79	- TO					
80	271	1,77	0.961	10.01	0.184	
-						

ORGAN WEIGHTS (GRAM) FEMALES END OF TREATMENT

ANIMAL	KIDNEYS (GRAM)	ADRENALS (GRAM)	SPLEEN (GRAM)
	(CONTROL)		
41 42	2.10	0.094	0.941
43	2.10	0.094	0.941
44	1.95	0.103	0.841
45	1.83	0.100	0.910
46			
47	2.21	0.083	0.869
48	1.97	0.087	0.863
49			
50			
	(50 MG/KG)		
51			
52	2.27	0.110	0.847
53	2.41	0.130	0.978
54	2.01	0.102	0.760
55			
56			
57	0.45		0.000
58	2.15	0.091	0.802
59	1.93	0.105	0.995
60			
GROUP 3	(150 MG/KG)		
61			
62	2.40	0.102	0.820
63	2.11	0.111	1.029
64	2.32	0.127	1.122
65			
66	2.21	0.115	0.802
67			and the state
68			
69			
70	2.27	0.113	0.577
GROUP 4	(500 MG/KG)		
71	2.38	0.112	0.733
72	2.56	0.109	0.647
73			===
74	2.53	0.110	0.870
75			
76			
77			
78	2.20	0.127	0.553
79	trans time with		
80	2.18	0.106	0.654

ORGAN/BODY WEIGHT RATIOS (%) FEMALES END OF TREATMENT

ANIMAL	BODY W.	BRAIN	HEART	LIVER	THYMUS	
	(GRAM)	(%)	(%)	(%)	(%)	
GROUP 1	(CONTROL)					
41						
42	247	0.81	0.395	3.83	0.074	
43					COS 1510 AND	
44	262	0.72	0.344	3.52	0.097	
45	271	0.68	0.341	3.32	0.070	
46	070					
47	276	0.70	0.328	3.17	0.108	
48	285	0.66	0.366	3.41	0.076	
49 50						
50						
	(50 MG/KG)					
51		0.70				
52	280	0.72	0.381	3.55	0.082	
53	299	0.65	0.344	3.56	0.068	
54 55	281	0.67	0.322	3.57	0.068	
56						
57						
58	269	0.68	0.381	3.66	0.067	
59	299	0.63	0.335	3.58	0.109	
60						
GROUP 3	(150 MG/KG)					
61						
62	292	0.68	0.336	3.29	0.078	
63	271	0.68	0.352	3.44	0.072	
64	282	0.66	0.385	3.97	0.066	
65						
66	270	0.67	0.387	3.56	0.072	
67						
68						
69						
70	302	0.65	0.329	3.16	0.066	
GROUP 4	(500 MG/KG)					
71	263	0.71	0.405	3.58	0.067	
72	282	0.66	0.368	3.09	0.059	
73						
74	291	0.66	0.392	3.29	0.051	
75					0000	
76	For over the second					
77 70		0.70			0.047	
78 70	246	0.73	0.423	3.52	0.047	
79 80	 271	0.65	0.355	3.69	0.068	
80	271	0.00	0.355	3.09	0.000	

ORGAN/BODY WEIGHT RATIOS (%) FEMALES END OF TREATMENT

ANIMAL	KIDNEYS (%)	ADRENALS (%)	SPLEEN (%)	
GROUP 1	(CONTROL)			
41	·			
42	0.85	0.038	0.381	
43				
44	0.74	0.039	0.321	
45	0.67	0.037	0.336	
46				
47	0.80	0.030	0.315	
48	0.69	0.031	0.303	
49				
50				
•				
	(50 MG/KG)			
51			0.000	
52	0.81	0.039	0.303	
53	0.80	0.043	0.327	
54	0.71	0.036	0.270	
55				
56				
57				
58	0.80	0.034	0.298	
59	0.64	0.035	0.333	
60				
	(150 MG/KG)			
61				
62	0.82	0.035	0.281	
63	0.78	0.041	0.380	
64	0.82	0.045	0.398	
65			0.00	
66	0.82	0.043	0.297	
67				
68				
69				
70	0.75	0.037	0.191	
	(500 MG/KG)			
71	0.90	0.043	0.279	
72	0.91	0.039	0.229	
73				
74	0.87	0.038	0.299	
75				
76				
77				
78	0.89	0.052	0.225	
79				
80	0.80	0.039	0.241	

BREEDING DATA PER LITTER F0-GENERATION - LACTATION

LITTED	DUDATION O			ITTER			D NIA	TAL 1.000	
LITTER	DURATION O							TAL LOSS	
	GESTATION	M 	F	M	F	тот.	M	F	
GROUP 1	(CONTROL)								
41	22	0	0	12	6	18	0	0	
42	21	1	Ó	10	9	19	0	0	
43	21	1	Ō	3	11	14	Ô	Ö	
44	21	0	0	6	10	16	0	Ö	
45	20	0	0	9	6	15	0	0	
46	22	0	0	8	6	14	0	0	
47	22	0	0	5	10	15	0	0	
48	20	0	0	6	10	16	0	0	
49	22	0	0	6	11	17	0	0	
TOTAL		2	0	65	79	144	0	0	
N	9	9	9	9	9	9	9	9	
MEAN	21.2	0.2	0.0	7.2	8.8	16.0	0.0	0.0	
ST.DEV.	8.0	0.4	0.0	2.8	2.2	1.7	0.0	0.0	

BREEDING DATA PER LITTER F0-GENERATION - LACTATION

LITTER	DURATION OF			ITTER S LIVIN			P.NA	TAL LOSS	
	GESTATION	М	F	М	F	тот.	M	F	
GROUP 2	2 (50 MG/KG)								
52	22	0	0	8	8	16	0	1	
53	21	1	0	12	6	18	0	0	
54	21	0	0	11	7	18	0	0	
56	22	0	0	4	3	7	0	0	
57	22	0	0	2	13	15	0	1	
58	21	0	0	7	10	17	0	0	
59	21	0	0	6	10	16	0	0	
60	22	0	0	1	12	13	1	12	
TOTAL		1	0	51	69	120	1	14	
N	8	8	8	8	8	8	8	8	
MEAN	21.5	0.1	0.0	6.4	8.6	15.0	0.1	1.8	
ST.DEV.	0.5	0.4	0.0	4.0	3.3	3.6	0.4	4.2	

BREEDING DATA PER LITTER F0-GENERATION - LACTATION

LITTER	DURATION OF			ITTER S LIVIN		P.NATAL LOSS			
	GESTATION	M	F	M	F	тот.	M	F	
GROUP 3	(150 MG/KG)						-		
61	22	0	0	8	9	17	0	0	
62	21	0	0	8	6	14	1	0	
63	22	0	0	11	9	20	0	2	
64	21	0	0	4	14	18	0	0	
65	21	0	0	6	7	13	0	0	
66	20	0	0	8	8	16	0	0	
67	21	0	0	7	10	17	0	1	
68	22	0	0	11	6	17	3	1	
69	21	0	0	7	11	18	2	0	
70	21	2	1	11	6	17	0	0	
TOTAL	· · · · · · · · · · · · · · · · · · ·	2	1	81	86	167	6	4	
N	10	10	10	10	10	10	10	10	
MEAN	21.2	0.2	0.1	8.1	8.6	16.7	0.6	0.4	
ST.DEV.	0.6	0.6	0.3	2.3	2.6	2.0	1.1	0.7	

BREEDING DATA PER LITTER F0-GENERATION - LACTATION

LITTER	DURATION O			ITTER S LIVIN			P.NA	TAL LOSS	-
	GESTATION	М	F	М	F	тот.	М	F	
GROUP 4	1 (500 MG/KG)								
71	22	0	0	2	2	4	0	0	
72	22	0	0	5	2	7	0	0	
74	22	0	0	5	4	9	0	0	
76	22	0	0	2	6	8	0	0	
78	22	0	0	6	5	11	4	4	
79	21	3	0	0	2	2	0	2	
80	22	0	0	3	4	7	0	0	
TOTAL		3	0	23	25	48	4	6	
N	7	7	7	7	7	7	7	7	
MEAN	21.9	0.4	0.0	3.3	3.6	6.9	0.6	0.9	
ST.DEV.	0.4	1.1	0.0	2.1	1.6	3.0	1.5	1.6	

MEAN BODY WEIGHTS OF PUPS PER LITTER (GRAM) F0-GENERATION - LACTATION

LITTER	SEX	DAY 1	DAY 4
GROUP 1	(CONTRO	DL)	
41	M	6.4	9.3
	F	5.9	7.8
	M+F	6.2	8.8
42	M	5.9	8.4
	F	5.7	7.7
	M+F	5.8	8.1
43	M	6.6	9.7
	F	6.4	9.5
	M+F	6.4	9.6
44	M	6.0	8.5
	F	5.5	7.7
	M+F	5.7	8.0
45	M	6.6	8.9
	F	6.0	8.4
	M+F	6.3	8.7
46	M	7.3	11.5
	F	7.3	11.2
	M+F	7.3	11.4
47	M	7.4	10.8
	F	6.9	10.4
	M+F	7.1	10.6
48	M	6.4	8.8
	F	5.9	8.1
	M+F	6.1	8.3
49	M	6.6	9.8
	F	6.3	9.2
	M+F	6.4	9.4
GROUP 2			
52	M	6.6	10.2
	F	6.4	9.6
	M+F	6.5	9.9
53	M	6.5	9.4
	F	6.1	8.5
	M+F	6.4	9.1
54	M	6.3	8.8
	F	5.8	7.7
	M+F	6.1	8.4
56	M	7.8	13.0
	F	7.8	13.0
	M+F	7.8	13.0
57	M	6.3	10.3
	F	6.1	9.8
	M+F	6.2	9.8
58	M	6.4	9.1
	F	6.0	8.6
	M+F	6.2	8.8
59	M	6.7	10.2
	F	6.3	9.6
	M+F	6.5	9.8
60	M F M+F	7.4 7.3 7.3	

MEAN BODY WEIGHTS OF PUPS PER LITTER (GRAM) F0-GENERATION - LACTATION

LITTER	SEX	DAY 1	DAY 4
GROUP 3			
61	M	6.7	9.1
	F	5.8	7.7
	M+F	6,2	8.3
62	M	6.4	9.1
	F	6.0	8.4
	M+F	6.2	8.8
63	M	6.3	9.2
	F	5.8	8.4
	M+F	6.1	8.9
64	M	6.3	9.1
	F	6.0	8.2
	M+F	6.0	8.4
65	M	6.1	9.6
	F	6.1	9.5
	M+F	6.1	9.6
66	M	6.4	8.4
	F	5.8	7.4
	M+F	6.1	7.9
67	M	6.3	9.1
	F	5.9	8.4
	M+F	6.1	8.7
68	M	6.9	10.9
	F	6.2	9.8
	M+F	6.7	10.5
69	M	5.9	8.4
	F	5.3	7.7
	M+F	5.6	7.9
70	M	6.1	8.1
	F	5.7	7.5
	M+F	5.9	7.9
GROUP 4	(500 MG/H	KG)	
71	M	7.6	11.1
	F	6.6	9.9
	M+F	7.1	10.5
72	M	6.2	9.2
	F	6.8	10.3
	M+F	6.3	9.5
74	M	6.3	9.5
	F	6.7	10.2
	M+F	6.5	9.8
76	M	7.6	11.2
	F	6.6	9.8
	M+F	6.8	10.2
78	M	5.6	8.0
	F	5.4	7.3
	M+F	5.5	7.8
79	M F M+F	 5.3 5.3	
80	M	7.0	10.8
	F	6.7	10.3
	M+F	6.8	10.5

LITTER PUP SEX DAY 1 DAY 4

					 	 · · · · · · · · · · · · · · · · · · ·	 	
GROUP	1 (CON	TROL)					
41	1	М	6.8	10.3				
	2	М	5.6	8.2				
	3	M	5.9	8.8				
	3 4 5 6 7 8 9	M	6.7	9.2				
	5	М	7.0	10.0				
	6	М	6.4	10.1				
	7	М	6.6	9.8				
	8	M	6.1	8.6				
	10	M M	6.4 6.1	8.7 9.2				
	11	M	6.5	9.4				
	12	М	6.2	9.1				
	13	F	6.1	8.5				
	14	F	5.5	7.3				
	15	F	5.6	7.6				
	16	F	6.4	9.5				
	17	F	5.2	5.8				
	18	F	6.4	8.2				
42	1	M	5.8	8.8				
	2	М	6.0	8.7				
	3 4	M	6.1	8.9				
	4	М	6.1	8.7				
	5 6	M	6.3	9.1				
	7	M M	5.1 5.6	6.5 8.5				
	8	M	5.5	8.2				
	9	М	6.7	8.9				
	10	M						
	11	F	5.7	7.9				
	12	F	5.8	7.9				
	13	F	5.5	7.4				
	14	M	6.2	8.2				
	15	F F	5.5	7.3				
	16 17	F	5.8 5.2	8.0 7.7				
	18	F	5.2	6.9				
	19	F	6.0	8.5				
	20	F	6.2	7.9				
43		М	6.4	10.0				
40	1	M	6.7	9.0				
	3	M	6.5	9.9				
	2 3 4 5	M						
	5	F	6.3	9.4				
	6 7	F	6.8	10.0				
	7	F	6.4	9.5				
	8 9	F	6.4	10.2				
	9	F	6.6	10.2				
	10	F F	5.9 6.1	9.1 8.7				
	11 12	F	6.1 6.6	9.6				
	13	F	6.3	9.9				
	14	F F	6.0	9.9 8.8				
	15	F	6.6	9.4				
44			5.7	8.3				
44	1	M M	5. <i>1</i> 6.5	8.3 9.7				
	2 3	M	5.7	9.1 7.4				
	4	M	6.1	8.6				
	5	M	5.7	8.1				
	6	M	6.3	8.9				
	5 6 7 8 9	F	6.0	8.5				
	8	F	5.9	8.8				
	9	F	5.4	7.4				
	10	F	5.4	8.3				

LITTER	PUP	SEX	DAY 1	DAY 4	
GROUP 1	(CONT				
	11 12 13 14 15 16	F	5.2 5.9 5.0 5.0 5.7 5.1	6.9 8.6 6.2 6.9 8.1 7.0	
45	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	M	5.9 6.9 6.6 6.9 6.3 6.3 6.5 6.0 6.5 5.5 5.7	7.8 9.6 8.1 9.3 8.8 9.7 8.7 9.0 9.4 9.1 7.6 7.8 8.3	
46	1 2 3 4 5 6 7 8 9 10 11 12 13	M M M M M M F F F F F F	7.9 7.0 7.2 6.9 7.0 7.6 7.1 7.3 7.3 7.3 7.2 7.1 7.4 7.6	12.4 11.6 10.8 11.2 10.8 11.9 11.9 11.0 11.3 10.5 11.7	
47	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	M M M M M F F F F F F F F F F F	7.5 7.1 7.3 7.1 8.0 7.1 6.5 7.0 6.9 7.2 6.7 6.5 7.4 6.6 7.0	11.4 10.0 10.3 10.8 11.7 11.3 10.1 10.7 10.9 10.3 10.5 10.1 10.6 9.6 10.3	
48	1 2 3 4 5 6 7 8 9 10 11 12 13	M M M F F M M F F F F F	7.0 6.7 6.1 5.8 6.5 5.4 6.9 6.0 6.0 6.2 6.4 6.4	9.9 9.2 8.4 7.8 8.7 7.5 9.6 7.9 8.8 8.1 8.3 9.0 8.8	

LITTER	PUP	SEX	DAY 1	DAY 4
GROUP 1				
	14 15 16	F F	4.8 5.6 5.9	5.8 7.4 8.3
49	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	. МММММГЕЕЕЕЕЕЕЕ	7.0 5.8 7.2 6.0 6.2 6.4 5.6 6.5 6.7 6.2 6.7 6.2 6.7 6.8	8.2 10.0 11.3 9.3 9.0 9.9 8.3 8.3 9.5 9.5 9.3 8.5 10.3 10.3
			6.7	10.3
GROUP 2	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	ММММММ	6.8 6.4 6.7 6.8 6.5 6.7 6.6 6.0 6.1 6.2 6.6 6.4 6.7	11.6 9.5 9.3 11.1 10.2 9.8 9.8 10.2 8.5 9.9 9.6 9.3 9.5 10.1
53	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	МММММММММ	6.3 6.8 6.8 6.1 6.5 6.6 7.1 6.5 6.1 6.5 6.1 5.8 6.1 6.4 6.5 6.1 6.5 6.1 6.5 6.1 6.5 6.5 6.1 6.5 6.1 6.5 6.1 6.5 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1	9.2 9.8 9.2 9.1 9.6 9.5 9.9 9.3 9.0 8.9 9.6 8.6 8.2 8.3 9.2 8.2

LITTER PUP SEX DAY 1 DAY 4

GROUP				
54	1	М	6.4	8.9
	2 3	M	6.5	9.2
	4	M M	6.1 6.0	8.6 8.1
	5	M	6.5	9.3
	6	M	6.3	8.4
	7	М	6.1	8.5
	8	М	6.6	10.1
	9 10	M	6.4	9.2
	11	M F	6.1 6.2	8.8 8.3
	12	F	6.0	8.9
	13	F	5.7	7.7
	14	М	5.9	8.0
	15 16	F F	5.5 5.8	7.1 6.8
	17	F	5.8	7.5
	18	F	5.6	8.0
56	1	M	8.1	13.5
	2	M	7.6	12.2
	3 4	М	7.6	13.3
	4 5	M F	7.9 7.7	13.2 13.1
	6	F	7.9	13.3
	7	F	7.7	12.5
57	1	М	6.8	10.9
	2	М	5.8	9.8
	3	F	5.9	9.6
	3 4 5 6	F	5.8 6.5	8.4 10.3
	6	F F	5.8	9.4
	7	F	6.2	9.8
	8	F	6.7	9.9
	9 10	F	5.5 6.8	 11.5
	11	F F	5.1	7.5
	12	F	6.3	10.0
	13	F	5.9	9.2
	14	F	7.0	11.6
	15	F	6.3	9.9
58	1	M F	6.1 5.9	9.2 8.4
	2 3	Г М	6.6	9.5
	3 4	М	6.2	7.8
	5	М	6.5	9.3
	6 7	M M	6.0 6.6	8.9
	8	M	6.5	9.6 9.5
	9	F	5.8	8.8
	10	F F	6.0	9.1
	11	F	6.5	9.2
	12 13	F F	6.2 6.3	8.8 9.6
	14	F	5.8	7.2
	15	F	6.3	8.9
	16	F	5.9	8.3
	17	F	5.8	7.9

LITTER	PUP	SEX	DAY 1	DAY 4	
GROUP 2	(50 MG	/KG)	-		,
59	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	M M M F M M F F F F F F F F F F F F	6.2 7.1 6.3 6.7 6.0 6.7 7.2 6.2 6.0 6.6 5.9 6.8 7.0 6.5 6.0 6.5	9.8 11.4 8.9 10.5 8.9 10.0 10.9 9.0 9.4 10.1 9.2 9.9 10.7 9.8 9.7 9.4	
60	1 2 3 4 5 6 7 8 9 10 11 12 13	MFFFFFFFFFF	7.4 7.6 6.8 7.7 7.8 7.4 7.2 6.8 7.5 6.9 7.7 7.0 7.5		
GROUP 3 61	(150 M 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	G/KG) M M M M M M F F F F F F F F F F F	6.7 6.4 6.8 7.1 6.6 6.7 6.5 5.9 6.2 6.4 5.6 5.7 5.7 5.8 5.7	8.9 8.8 9.5 9.2 8.6 9.2 9.5 8.1 7.9 8.7 7.7 7.7 7.7 6.7	
62	1 2 3 4 5 6 7 8 9 10 11 12 13	M M M M M M F F F F F F	5.8 6.7 6.4 6.2 6.1 6.7 6.7 5.9 6.2 5.9 6.0 6.0	8.5 9.4 9.1 8.9 9.4 9.3 9.6 8.9 9.4 8.0 7.9	

LITTER PUP SEX DAY 1 DAY 4

CPOUR	3 (150 N	AC/KC	21		
63	1	M	7.2	10.2	
00	2	М	6.2	9.0	
	3	M	6.3	9.0	
	4	М	5.5	8.4	
	5	M	6.5	9.8	
	6	M	6.3	8.5	
	7	М	6.0	8.3	
	8	М	6.6	10.6	
	9	M	6.2	9.3	
	10	М	6.1	8.9	
	11	F	5.9	8.3	
	12	F	5.6	8.5	
	13	F	5.8		
	14	F	6.0		
	15	F	6.1	7.8	
	16	F	5.9	8.1	
	17	M	6.8	9.5	
	18	F	5.6	8.5	
	19	F	5.8	9.1	
	20	F	5.8	8.3	
64	1	М	6.0	9.0	
	2	М	6.2	8.8	
	3 4	М	6.7	9.6	
	4	М	6.2	8.8	
	5	F	6.5	9.3	
	6 7	F	5.8	8.2	
	,	F	5.7	7.5	
	8 9	F F	6.3	8.8	
	40	F	6.1	8.8	
	10 11	F F	6.0 6.1	8.4	
	12	F		8.7	
	13	F	5.9	7.9	
	14	F	6.3 5.9	8.8 7.5	
	15	F	5.7	8.3	
	16	F	5.8	8.0	
	17	F	6.0	8.2	
	18	F	5.6	7.1	
65	1	M	6.2	10.1	
	2	М	5.5	8.1	
	3	М	6.4	10.3	
	4	М	6.3	9.7	
	5	М	6.6	10.2	
	6	М	5.7	9.3	
	7	F	6.3	9.8	
	8	F	6.2	10.2	
	9	F	6.0	9.6	
	10	F	6.0	9.3	
	11	F	6.1	9.2	
	12	F	6.1	9.3	
	13	F	6.1	9.2	
66	1	М	6.4	8.6	
	2	М	6.5	8.0	
	3	M	6.3	8.6	
	2 3 4	M	6.5	7.9	
	5	M	6.7	9.2	
	6	M	6.7	8.9	
	7	М	5.7	8.0	
	8	М	6.3	8.5	
	9	F	6.0	7.9	
	10	F	5.8	7.8	
	11	F	6.1	7.9	
	12	F	6.3	8.1	

LITTER

BODY WEIGHTS OF PUPS (GRAM) F0-GENERATION - LACTATION

PUP SEX DAY 1 DAY 4

14 F 6.0 6.9 15 F 5.6 7.2 16 F 5.7 7.5 1 M 5.8 9.0 2 M 6.2 9.3 3 M 6.2 8.6 5 M 6.5 9.2 6 M 6.6 10.1 7 M 6.6 9.5 8 F 5.8 8.4 9 F 6.1 8.5 10 F 6.3 9.4 12 F 6.4 8.7 13 F 5.7 7.9 14 F 5.6 8.2 16 F 5.8 7.4 17 F 5.5 7.6 1 M 6.5 10.6 2 M 7.1 1.7 6 M 7.1 1.7 6 M 7.1 1.7 6 M 7.1 10.0 11 M 7.2 10.7 12 F 6.9 11.0 13 F 7.0 10.7 14 F 6.5 9.4 15 F 6.3 9.8 16 F 5.2 8.1 17 F 5.4 1 M 5.1 7.4 2 M 5.8 7.8 3 M 6.2 8.6 4 M 6.3 9.2 5 M 6.0 7 M 6.4 9.3 8 F 5.3 8.7 10 F 5.4 1 M 5.1 7.4 2 M 5.8 7.8 3 M 6.2 9.8 13 F 5.3 7.8 9 F 5.3 8.7 10 F 5.4 1 M 5.1 7.4 2 M 5.8 7.8 3 M 6.2 9.8 13 F 5.3 7.8 9 F 5.3 8.7 10 F 5.4 7.9 11 F 4.6 5.8 12 F 6.2 9.8 13 F 5.5 7.0 18 F 5.5 7.0
16 F 5.7 7.5 1 M 5.8 9.0 2 M 6.2 9.3 3 M 6.2 8.6 5 M 6.5 9.2 6 M 6.6 10.1 7 M 6.6 9.5 8 F 5.8 8.4 9 F 6.1 8.5 10 F 6.6 10.0 11 F 6.3 9.4 12 F 6.4 8.7 13 F 5.7 7.9 14 F 5.1 15 F 5.6 8.2 16 F 5.8 7.6 1 M 6.5 10.6 2 M 7.1 11.1 5 M 7.2 11.7 6 M 7.1 11.1 5 M 7.2 11.7 6 M 7.1 10.0 11 M 7.2 10.7 12 F 6.9 11.0 13 F 6.5 9.4 15 F 6.3 9.8 16 F 5.2 8.1 17 F 5.4 1 M 5.8 7.8 3 M 6.2 8.6 4 M 6.3 9.8 16 F 5.2 8.1 17 F 5.4 1 M 5.8 7.8 3 M 6.2 8.6 4 M 6.3 9.8 16 F 5.2 8.1 17 F 5.4 1 M 5.1 7.4 2 M 5.8 7.8 3 M 6.2 8.6 4 M 6.3 9.8 16 F 5.2 8.1 17 F 5.4 1 M 5.1 7.4 2 M 5.8 7.8 3 M 6.2 8.6 4 M 6.3 9.8 16 F 5.2 8.1 17 F 5.4 1 M 5.5 7.6 1 M 5.7 7.8 1 F 5.4 7.8 1 M 5.8 7.8 1 M 5.8 7.8 1 M 6.9 9.3 1 M 7.0 9.3 1 M 7
2 M 6.2 9.3 3 M 6.2 8.3 4 M 6.2 8.6 5 M 6.5 9.2 6 M 6.6 9.5 8 F 5.8 8.4 9 F 6.1 8.5 10 F 6.6 10.0 11 F 6.3 9.4 12 F 6.4 8.7 13 F 5.7 7.9 14 F 5.1 15 F 5.6 8.2 16 F 5.8 7.6 1 M 6.5 10.6 2 M 5.8 3 M 7.1 11.1 5 M 7.2 11.7 6 M 7.1 9.6 7 M 6.0 8 M 7.0 11.7 10 M 7.1 10.0 11 M 7.2 10.7 12 F 6.9 11.0 13 F 7.0 14 F 6.5 9.4 15 F 6.3 9.8 16 F 5.2 8.1 17 F 5.4 1 M 5.8 7.8 3 M 6.2 4 M 6.3 9.8 16 F 5.2 8.1 17 F 5.4 1 M 5.8 7.8 3 M 6.2 4 M 6.3 9.8 16 F 5.2 8.1 17 F 5.4 1 M 5.5 7.6 1 M 5.8 7.8 3 M 6.2 4 M 6.3 9.8 16 F 5.2 8.1 17 F 5.4 1 M 5.5 7.6 1 M 5.8 7.8 3 M 6.2 4 M 6.3 9.8 16 F 5.2 8.1 17 F 5.4 1 M 5.5 7.6 1 M 5.6 9.8 16 F 5.2 8.1 17 F 5.4 1 M 5.8 7.8 16 F 5.2 7.7 17 F 5.8 8.3 14 F 5.4 7.9 15 F 6.2 9.8 13 F 5.8 8.3 14 F 5.4 7.9 15 F 6.3 7.7 17 F 4.8 7.0
3 M 6.2 8.3 4 M 6.2 8.6 5 M 6.5 9.5 8 F 5.8 8.4 9 F 6.1 8.5 10 F 6.6 10.0 11 F 6.3 9.4 12 F 6.4 8.7 13 F 5.7 7.9 14 F 5.1 15 F 5.6 8.2 16 F 5.8 7.4 17 F 5.5 7.6 1 M 6.5 10.6 2 M 7.1 11.1 5 M 7.2 11.7 6 M 7.1 9.6 7 M 6.0 8 M 7.0 11.7 10 M 7.1 10.0 11 M 7.2 10.7 12 F 6.9 11.0 13 F 7.0 10.7 14 F 6.5 9.4 15 F 6.3 9.8 16 F 5.2 8.1 17 F 5.4 1 M 5.8 7.8 3 M 6.2 8.3 16 F 5.2 8.1 17 F 5.4 1 M 5.8 7.8 3 M 6.2 8.3 14 F 5.2 7.7 15 F 6.3 9.8 16 F 5.2 8.1 17 F 5.4 1 M 5.8 7.8 3 M 6.2 8.3 16 F 5.2 8.1 17 F 5.4 1 M 5.8 7.8 3 M 6.2 8.3 16 F 5.2 7.7 17 F 5.4 7.9 18 F 5.3 7.8 19 F 5.3 8.3 10 F 5.3 7.7 11 F 4.6 2 9.8 13 F 5.8 8.3 14 F 5.4 7.9 15 F 6.2 9.8 15 F 5.3 7.7 17 F 4.8 7.0
4 M 6.2 8.6 5 M 6.5 9.2 6 M 6.6 10.1 7 M 6.6 9.5 8 F 5.8 8.4 9 F 6.1 8.5 10 F 6.6 10.0 11 F 6.3 9.4 12 F 6.4 8.7 13 F 5.7 7.9 14 F 5.1 15 F 5.6 8.2 16 F 5.8 7.4 17 F 5.5 7.6 1 M 6.5 10.6 2 M 5.8 3 M 7.2 11.7 6 M 7.1 11.1 5 M 7.2 11.7 6 M 7.1 9.6 7 M 6.0 8 M 7.6 12.3 9 M 7.0 11.7 10 M 7.1 10.0 11 M 7.2 10.7 12 F 6.9 11.0 13 F 7.0 10.7 14 F 6.5 9.4 15 F 6.3 9.8 16 F 5.2 8.1 17 F 5.4 1 M 5.1 7.4 2 M 5.8 7.8 3 M 6.2 8.6 4 M 6.3 9.2 5 M 6.0 9.3 8 F 5.3 7.8 9 F 5.3 8.7 10 F 5.2 7.7 11 F 4.6 5.8 12 F 6.2 9.8 13 F 5.8 8.3 14 F 5.4 7.9 15 F 6.2 9.8 13 F 5.8 8.3 14 F 5.4 7.9 15 F 6.2 9.8 17 F 5.4 7.9 18 F 5.3 7.7 19 F 5.3 7.7 10 F 5.2 7.7 11 F 4.6 5.8 12 F 6.2 9.8 13 F 5.8 8.3 14 F 5.4 7.9 15 F 5.3 7.7 17 F 4.8 7.0
6 M 6.6 10.1 7 M 6.6 9.5 8 F 5.8 8.4 9 F 6.1 8.5 10 F 6.6 10.0 11 F 6.3 9.4 12 F 6.4 8.7 13 F 5.7 7.9 14 F 5.1 15 F 5.6 8.2 16 F 5.8 7.4 17 F 5.5 7.6 1 M 6.5 10.6 2 M 5.8 3 M 7.2 4 M 7.1 11.1 5 M 7.2 11.7 6 M 7.1 19.6 7 M 6.0 8 M 7.6 12.3 9 M 7.0 11.7 10 M 7.1 10.0 11 M 7.2 10.7 12 F 6.9 11.0 13 F 7.0 10.7 14 F 6.5 9.4 15 F 6.3 9.8 16 F 5.2 8.1 17 F 5.4 1 M 5.1 7.4 2 M 5.8 7.8 3 M 6.2 8.6 4 M 6.3 9.2 5 M 5.5 6 M 6.0 7 M 6.4 9.3 8 F 5.3 7.8 9 F 5.3 8.7 10 F 5.2 7.7 11 F 4.6 5.8 12 F 6.2 9.8 13 F 5.8 8.3 14 F 5.4 7.9 15 F 5.3 6.6 16 F 5.3 7.7 17 F 4.8 7.0
8 F 5.8 8.4 9 F 6.1 8.5 10 F 6.6 10.0 11 F 6.3 9.4 12 F 6.4 8.7 13 F 5.7 7.9 14 F 5.1 15 F 5.6 8.2 16 F 5.8 7.4 17 F 5.5 7.6 1 M 6.5 10.6 2 M 5.8 3 M 7.2 4 M 7.1 11.1 5 M 7.2 11.7 6 M 7.1 9.6 7 M 6.0 8 M 7.6 12.3 9 M 7.0 11.7 10 M 7.1 10.0 11 M 7.2 10.7 12 F 6.9 11.0 13 F 7.0 10.7 14 F 6.5 9.4 15 F 6.3 9.8 16 F 5.2 8.1 17 F 5.4 1 M 5.1 7.4 2 M 5.8 7.8 3 M 6.2 8.6 4 M 6.3 9.2 5 M 5.5 6 M 6.0 7 M 6.4 9.3 8 F 5.3 7.8 9 F 5.3 7.8 9 F 5.3 7.8 9 F 5.3 7.8 12 F 6.2 9.8 13 F 5.8 8.3 14 F 5.4 7.9 15 F 6.2 9.8 13 F 5.8 8.3 14 F 5.4 7.9 15 F 5.3 6.6 16 F 5.3 7.7 17 F 4.8 7.0
10 F 6.6 10.0 11 F 6.3 9.4 12 F 6.4 8.7 13 F 5.7 7.9 14 F 5.1 15 F 5.6 8.2 16 F 5.8 7.4 17 F 5.5 7.6 1 M 6.5 10.6 2 M 5.8 3 M 7.2 4 M 7.1 11.1 5 M 7.2 11.7 6 M 7.1 9.6 7 M 6.0 8 M 7.6 12.3 9 M 7.0 11.7 10 M 7.1 10.0 11 M 7.2 10.7 12 F 6.9 11.0 13 F 7.0 10.7 14 F 6.5 9.4 15 F 6.3 9.8 16 F 5.2 8.1 17 F 5.4 1 M 5.1 7.4 2 M 5.8 7.8 3 M 6.2 8.6 4 M 6.3 9.2 5 M 5.5 6 M 6.0 7 M 6.4 9.3 8 F 5.3 7.8 9 F 5.3 8.7 10 F 5.2 7.7 11 F 4.6 5.8 12 F 6.2 9.8 13 F 5.8 8.3 14 F 5.4 7.9 15 F 6.3 9.8
11 F 6.3 9.4 12 F 6.4 8.7 13 F 5.7 7.9 14 F 5.1 15 F 5.6 8.2 16 F 5.8 7.4 17 F 5.5 7.6 1 M 6.5 10.6 2 M 5.8 3 M 7.2 4 M 7.1 11.1 5 M 7.2 11.7 6 M 7.1 9.6 7 M 6.0 8 M 7.6 12.3 9 M 7.0 11.7 10 M 7.1 10.0 11 M 7.2 10.7 12 F 6.9 11.0 13 F 7.0 10.7 14 F 6.5 9.4 15 F 6.3 9.8 16 F 5.2 8.1 17 F 5.4 1 M 5.1 7.4 2 M 5.8 7.8 3 M 6.2 8.6 4 M 6.3 9.2 5 M 5.5 6 M 6.0 7 M 6.4 9.3 8 F 5.3 7.8 9 F 5.3 8.7 10 F 5.2 7.7 11 F 4.6 5.8 12 F 6.2 9.8 13 F 5.8 8.3 14 F 5.4 7.9 15 F 5.3 6.6 16 F 5.3 7.7 17 F 4.8 7.0
13 F 5.7 7.9 14 F 5.1 15 F 5.6 8.2 16 F 5.8 7.4 17 F 5.5 7.6 1 M 6.5 10.6 2 M 5.8 3 M 7.2 4 M 7.1 11.1 5 M 7.2 11.7 6 M 7.1 9.6 7 M 6.0 8 M 7.0 11.7 10 M 7.1 10.0 11 M 7.2 10.7 12 F 6.9 11.0 13 F 7.0 10.7 14 F 6.5 9.4 15 F 6.3 9.8 16 F 5.2 8.1 17 F 5.4 1 M 5.1 7.4 2 M 5.8 7.8 3 M 6.2 8.1 17 F 5.4 1 M 5.1 7.4 2 M 5.8 7.8 3 M 6.2 8.1 17 F 5.4 1 M 5.1 7.4 2 M 5.8 7.8 3 M 6.2 8.1 17 F 5.4 1 M 5.5 7.8 3 M 6.2 8.3 4 M 6.3 9.2 5 M 5.5 6 M 6.0 7 M 6.4 9.3 8 F 5.3 7.8 12 F 6.2 9.8 13 F 5.8 8.3 14 F 5.4 7.9 15 F 5.3 7.7 17 F 4.8 7.0
15 F 5.6 8.2 16 F 5.8 7.4 17 F 5.5 7.6 1 M 6.5 10.6 2 M 5.8 3 M 7.2 4 M 7.1 11.1 5 M 7.2 11.7 6 M 7.1 9.6 7 M 6.0 8 M 7.6 12.3 9 M 7.0 11.3 10 M 7.1 10.0 11 M 7.2 10.7 12 F 6.9 11.0 13 F 7.0 10.7 14 F 6.5 9.4 15 F 6.3 9.8 16 F 5.2 8.1 17 F 5.4 1 M 5.1 7.4 2 M 5.8 7.8 3 M 6.2 8.6 4 M 6.3 9.2 5 M 5.5 6 M 6.0 7 M 6.4 9.3 8 F 5.3 7.8 9 F 5.3 8.3 14 F 5.4 7.9 15 F 6.2 9.8 13 F 5.8 8.3 14 F 5.4 7.9 15 F 5.3 6.6 16 F 5.3 7.7 17 F 4.8 7.0
17 F 5.5 7.6 1 M 6.5 10.6 2 M 5.8 3 M 7.2 4 M 7.1 11.1 5 M 7.2 11.7 6 M 7.1 9.6 7 M 6.0 8 M 7.6 12.3 9 M 7.0 11.7 10 M 7.1 10.0 11 M 7.2 10.7 12 F 6.9 11.0 13 F 7.0 10.7 14 F 6.5 9.4 15 F 6.3 9.8 16 F 5.2 8.1 17 F 5.4 1 M 5.1 7.4 2 M 5.8 7.8 3 M 6.2 8.6 4 M 6.3 9.2 5 M 5.5 6 M 6.0 7 M 6.4 9.3 8 F 5.3 7.8 9 F 5.3 8.7 10 F 5.2 7.7 11 F 4.6 5.8 12 F 6.2 9.8 13 F 5.8 8.3 14 F 5.4 7.9 15 F 5.3 7.7 17 F 4.8 7.0
2 M 5.8 3 M 7.2 4 M 7.1 11.1 5 M 7.2 11.7 6 M 7.1 9.6 7 M 6.0 8 M 7.6 12.3 9 M 7.0 11.7 10 M 7.1 10.0 11 M 7.2 10.7 12 F 6.9 11.0 13 F 7.0 10.7 14 F 6.5 9.4 15 F 6.3 9.8 16 F 5.2 8.1 17 F 5.4 1 M 5.1 7.4 2 M 5.8 7.8 3 M 6.2 8.6 4 M 6.3 9.2 5 M 5.5 6 M 6.0 7 M 6.4 9.3 8 F 5.3 7.8 9 F 5.3 8.7 10 F 5.2 7.7 11 F 4.6 5.8 12 F 6.2 9.8 13 F 5.8 8.3 14 F 5.4 7.0 15 F 5.3 7.7 17 F 4.8 7.0
3 M 7.2 4 M 7.1 11.1 5 M 7.2 11.7 6 M 7.1 9.6 7 M 6.0 8 M 7.6 12.3 9 M 7.0 11.7 10 M 7.1 10.0 11 M 7.2 10.7 12 F 6.9 11.0 13 F 7.0 10.7 14 F 6.5 9.4 15 F 6.3 9.8 16 F 5.2 8.1 17 F 5.4 1 M 5.1 7.4 2 M 5.8 3 M 6.2 8.6 4 M 6.3 9.2 5 M 5.5 6 M 6.0 7 M 6.4 9.3 8 F 5.3 7.7 10 F 5.2 9.8 13 F 5.8 8.3 14 F 5.4 7.9 15 F 6.2 9.8 13 F 5.8 8.3 14 F 5.4 7.9 15 F 5.3 6.6 16 F 5.3 7.7 17 F 4.8 7.0
5 M 7.2 11.7 6 M 7.1 9.6 7 M 6.0 8 M 7.6 12.3 9 M 7.0 11.7 10 M 7.1 10.0 11 M 7.2 10.7 12 F 6.9 11.0 13 F 7.0 10.7 14 F 6.5 9.4 15 F 6.3 9.8 16 F 5.2 8.1 17 F 5.4 1 M 5.1 7.4 2 M 5.8 7.8 3 M 6.2 8.6 4 M 6.3 9.2 5 M 5.5 6 M 6.0 7 M 6.4 9.3 8 F 5.3 7.8 9 F 5.3 8.7 10 F 5.2 7.7 11 F 4.6 5.8 12 F 6.2 9.8 13 F 5.8 8.3 14 F 5.4 7.9 15 F 5.3 6.6 16 F 5.3 7.7 17 F 4.8 7.0
7 M 6.0 8 M 7.6 12.3 9 M 7.0 11.7 10 M 7.1 10.0 11 M 7.2 10.7 12 F 6.9 11.0 13 F 7.0 10.7 14 F 6.5 9.4 15 F 6.3 9.8 16 F 5.2 8.1 17 F 5.4 1 M 5.1 7.4 2 M 5.8 7.8 3 M 6.2 8.6 4 M 6.3 9.2 5 M 5.5 6 M 6.0 7 M 6.4 9.3 8 F 5.3 7.8 9 F 5.3 8.7 10 F 5.2 7.7 11 F 4.6 5.8 12 F 6.2 9.8 13 F 5.8 8.3 14 F 5.4 7.9 15 F 5.3 6.6 16 F 5.3 7.7 17 F 4.8 7.0
9 M 7.0 11.7 10 M 7.1 10.0 11 M 7.2 10.7 12 F 6.9 11.0 13 F 7.0 10.7 14 F 6.5 9.4 15 F 6.3 9.8 16 F 5.2 8.1 17 F 5.4 1 M 5.1 7.4 2 M 5.8 7.8 3 M 6.2 8.6 4 M 6.3 8.6 4 M 6.3 8.6 5 M 6.0 7 M 6.4 9.3 8 F 5.3 7.8 9 F 5.3 8.7 10 F 5.2 7.7 11 F 4.6 5.8 12 F 6.2 9.8 13 F 5.8 8.3 14 F 5.4 7.9 15 F 5.3 6.6 16 F 5.3 7.7 17 F 4.8 7.0
10 M 7.1 10.0 11 M 7.2 10.7 12 F 6.9 11.0 13 F 7.0 10.7 14 F 6.5 9.4 15 F 6.3 9.8 16 F 5.2 8.1 17 F 5.4 1 M 5.1 7.4 2 M 5.8 7.8 3 M 6.2 8.6 4 M 6.3 9.2 5 M 5.5 6 M 6.0 7 M 6.4 9.3 8 F 5.3 7.8 9 F 5.3 7.8 9 F 5.3 8.7 10 F 5.2 7.7 11 F 4.6 5.8 12 F 6.2 9.8 13 F 5.8 8.3 14 F 5.4 7.9 15 F 5.3 7.7 17 F 4.8 7.0
12 F 6.9 11.0 13 F 7.0 10.7 14 F 6.5 9.4 15 F 6.3 9.8 16 F 5.2 8.1 17 F 5.4 1 M 5.1 7.4 2 M 5.8 7.8 3 M 6.2 8.6 4 M 6.3 9.2 5 M 5.5 6 M 6.0 7 M 6.4 9.3 8 F 5.3 7.8 9 F 5.3 8.7 10 F 5.2 7.7 11 F 4.6 5.8 12 F 6.2 9.8 13 F 5.8 8.3 14 F 5.4 7.9 15 F 5.3 6.6 16 F 5.3 7.7
14 F 6.5 9.4 15 F 6.3 9.8 16 F 5.2 8.1 17 F 5.4 1 M 5.1 7.4 2 M 5.8 7.8 3 M 6.2 8.6 4 M 6.3 9.2 5 M 5.5 6 M 6.0 7 M 6.4 9.3 8 F 5.3 7.8 9 F 5.3 7.8 10 F 5.2 7.7 11 F 4.6 5.8 12 F 6.2 9.8 13 F 5.8 8.3 14 F 5.4 7.9 15 F 5.3 6.6 16 F 5.3 7.7 17 F 4.8 7.0
16 F 5.2 8.1 17 F 5.4 1 M 5.1 7.4 2 M 5.8 7.8 3 M 6.2 8.6 4 M 6.3 9.2 5 M 5.5 6 M 6.0 7 M 6.4 9.3 8 F 5.3 7.8 9 F 5.3 8.7 10 F 5.2 7.7 11 F 4.6 5.8 12 F 6.2 9.8 13 F 5.8 8.3 14 F 5.4 7.9 15 F 5.3 6.6 16 F 5.3 7.7 17 F 4.8 7.0
1 M 5.1 7.4 2 M 5.8 7.8 3 M 6.2 8.6 4 M 6.3 9.2 5 M 5.5 6 M 6.0 7 M 6.4 9.3 8 F 5.3 8.7 10 F 5.2 7.7 11 F 4.6 5.8 12 F 6.2 9.8 13 F 5.8 8.3 14 F 5.4 7.9 15 F 5.3 6.6 16 F 5.3 7.7 17 F 4.8 7.0
2 M 5.8 7.8 3 M 6.2 8.6 4 M 6.3 9.2 5 M 5.5 6 M 6.0 7 M 6.4 9.3 8 F 5.3 7.8 9 F 5.3 8.7 10 F 5.2 7.7 11 F 4.6 5.8 12 F 6.2 9.8 13 F 5.8 8.3 14 F 5.4 7.9 15 F 5.3 6.6 16 F 5.3 7.7 17 F 4.8 7.0
4 M 6.3 9.2 5 M 5.5 6 M 6.0 7 M 6.4 9.3 8 F 5.3 7.8 9 F 5.3 8.7 10 F 5.2 7.7 11 F 4.6 5.8 12 F 6.2 9.8 13 F 5.8 8.3 14 F 5.4 7.9 15 F 5.3 6.6 16 F 5.3 7.7 17 F 4.8 7.0
5 M 5.5 6 M 6.0 7 M 6.4 9.3 8 F 5.3 7.8 9 F 5.3 8.7 10 F 5.2 7.7 11 F 4.6 5.8 12 F 6.2 9.8 13 F 5.8 8.3 14 F 5.4 7.9 15 F 5.3 6.6 16 F 5.3 7.7 17 F 4.8 7.0
7 M 6.4 9.3 8 F 5.3 7.8 9 F 5.3 8.7 10 F 5.2 7.7 11 F 4.6 5.8 12 F 6.2 9.8 13 F 5.8 8.3 14 F 5.4 7.9 15 F 5.3 6.6 16 F 5.3 7.7 17 F 4.8 7.0
9 F 5.3 8.7 10 F 5.2 7.7 11 F 4.6 5.8 12 F 6.2 9.8 13 F 5.8 8.3 14 F 5.4 7.9 15 F 5.3 6.6 16 F 5.3 7.7 17 F 4.8 7.0
11 F 4.6 5.8 12 F 6.2 9.8 13 F 5.8 8.3 14 F 5.4 7.9 15 F 5.3 6.6 16 F 5.3 7.7 17 F 4.8 7.0
13 F 5.8 8.3 14 F 5.4 7.9 15 F 5.3 6.6 16 F 5.3 7.7 17 F 4.8 7.0
14 F 5.4 7.9 15 F 5.3 6.6 16 F 5.3 7.7 17 F 4.8 7.0
16 F 5.3 7.7 17 F 4.8 7.0

8.7

8.9 7.9 7.9

8.2 7.9 8.6

5.5 6.6

6.4 5.9 5.9 6.0

6.0

6.0

70

M M M M M

М

LITTER	PHP	SEX	DAY 1	DAY 4
	FUF		וואט	UA 1 4

GROUP 3				
STOOL 3	8 9 10 11 12 13 14 15 16 17	M M M F F M F F M F	5.9 6.0 6.0 5.8 6.3 5.5 5.7 5.7	7.1 8.7 8.3 7.6 8.0 7.0 8.2 7.2 6.8
	19 20	F	5.6 	7.3
GROUP 4			3)	
71	1 2 3 4	M M F F	7.9 7.3 6.5 6.7	12.0 10.2 9.7 10.2
72	1 2 3 4 5 6 7	M M M M F	6.7 5.0 6.3 6.4 6.4 6.6 7.0	10.3 7.9 9.0 9.5 9.6 10.2 10.4
74	1 2 3 4 5 6 7 8 9	M M M M F F	6.0 5.4 6.8 6.9 6.3 6.5 7.1 6.9 6.4	9.7 7.8 10.1 11.2 8.7 9.3 10.8 10.7
76	1 2 3 4 5 6 7 8	M F F F F F F	7.8 7.4 7.1 7.1 7.2 7.0 6.1 5.1	11.5 10.9 10.8 10.4 10.6 10.0 9.3 7.8
78	1 2 3 4 5 6 7 8 9 10	M M M M F F F	5.7 5.3 5.5 5.9 5.8 5.8 5.6 5.4 5.4 5.4 5.3	8.5 7.5 7.3
79	1 2 3 4 5	M M F F	 5.4 5.3	

LITTER	PUP	SEX	DAY 1	DAY 4

GROUP	4 (500	MG/KG	€)	
80	· 1	М	6.9	10.8
	2	M	7.9	12.7
	3	М	6.1	8.8
	4	F	5.7	8.0
	5	F	6.6	9.8
	6	F	7.3	11.7
	7	F	7.3	11.6

LITTER PUP DELIVERY	END	OF P.P. PHASE	FINDINGS
GROUP 1 (CON	(ROL)		
		5 Planned Necropsy	FLC No findings LLC No findings
2 1	M DAY	5 Planned Necropsy	MACRO No milk FLC No findings LLC No findings
3 1	M DAY	5 Planned Necropsy	MACRO No milk FLC No findings
4 1	4 DAV	5 Planned Necropsy	LLC No findings MACRO No milk FLC No findings
-7 'r	VI DAI	5 Flamled Necropsy	FLC No findings LLC No findings MACRO No findings
5 1	M DAY	5 Planned Necropsy	FLC No findings LLC No findings
6 1	M DAY	5 Planned Necropsy	MACRO No milk FLC No findings LLC No findings
7 1	M DAY	5 Planned Necropsy	MACRO No findings FLC No findings
8 1	M DAY	5 Planned Necropsy	LLC No findings MACRO No findings FLC No findings
			LLC No findings MACRO No milk
9 1	M DAY	5 Planned Necropsy	FLC No findings LLC No findings MACRO No findings
10 1	M DAY	5 Planned Necropsy	FLC No findings LLC No findings
11 N	M DAY	5 Planned Necropsy	MACRO No milk FLC No findings LLC No findings
12 1	M DAY	5 Planned Necropsy	MACRO No milk FLC No findings
12 [- DAV	5 Planned Necropsy	LLC No findings MACRO No findings FLC No findings
			LLC No findings MACRO No milk
14 F	DAY	5 Planned Necropsy	FLC No findings LLC No findings MACRO No milk
15 F	DAY	5 Planned Necropsy	FLC No findings LLC No findings
16 F	DAY	5 Pianned Necropsy	MACRO No findings FLC No findings
17 F	DAY	5 Planned Necropsy	LLC No findings MACRO No milk FLC No findings
		. •	DAY 4 Small LLC Small
18 F	DAY	5 Planned Necropsy	MACRO No findings FLC No findings LLC No findings
	M DAY	5 Planned Necropsy	MACRO No milk FLC No findings
16FEB2007 2 N	/ DAY	5 Planned Necropsy	LLC No findings MACRO No milk FLC No findings
ب به ا	5,11	- Taminos Hooropay	LLC No findings MACRO No milk

LITTER DELIVERY	PL	JP	END O	F P.P. PHASE	FINDINGS
GROUP 1 (COI	NTR	OL)		
	3	М	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	4	М	DAY 5	Planned Necropsy	MACRO No findings FLC No findings
	7		<i>D</i> /(10	r latifica (vectops)	LLC No findings
	5	М	DAY 5	Planned Necropsy	MACRO No milk FLC No findings
					LLC No findings MACRO No milk
	6	М	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	_				MACRO Small, no milk
	7	M	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	8	8.4	DAVE	Planned Magrapey	MACRO No milk
	٥	IVI	DATS	Planned Necropsy	FLC No findings LLC No findings
	9	М	DAY 5	Planned Necropsy	MACRO No milk FLC No findings
				, , , , , , , , , , , , , , , , , , , ,	DAY 4 Red spot neck
					LLC No findings MACRO No milk
	10	M	DAY 1	Dead at FLC	FLC Dead MACRO Cannibalism, no milk
	11	F	DAY 5	Planned Necropsy	FLC No findings
					LLC No findings MACRO No milk
	12	F	DAY 5	Planned Necropsy	FLC No findings
					LLC No findings MACRO No milk
	13	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings
					MACRO No milk
	14	М	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	45	_	DAVE	Diamond Nonconne	MACRO No milk
	15	٢	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	16	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings
	•••	•	D/11 0	Tiamica Neoropsy	LLC No findings
	17	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings
					LLC No findings MACRO No milk
	18	F	DAY 5	Planned Necropsy	FLC No findings
					LLC No findings MACRO No milk
	19	F	DAY 5	Planned Necropsy	FLC No findings
					LLC No findings MACRO No milk
	20	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings
					MACRO No milk
LITTER 43 14FEB2007		М	DAY 5	Planned Necropsy	FLC No findings LLC No findings
			D. 1.1.5	m	MACRO No milk
	2	M	DAY 5	Planned Necropsy	FLC No findings LLC No findings
					MACRO No milk

LITTER DELIVERY	PU	IP	END O	F P.P. PHASE	FINDINGS
GROUP 1 (COI	NTR	OL)		
	3	М	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	4	М	DAY 1	Dead at FLC	MACRO No milk FLC Dead
	5	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	6	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings
		_			LLC No findings MACRO No milk
	7	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	8	F	DAY 5	Planned Necropsy	MACRO No milk FLC Red spot head LLC No findings
	9	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings
	4.0	_	- 437 -		LLC No findings MACRO No milk
	10	F	DAY 5	Planned Necropsy	FLC Small LLC No findings MACRO No milk
	11	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	12	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings
	40	_	DAY 5	Diameter 111	LLC No findings MACRO No milk
	13	٢	DAYS	Planned Necropsy	FLC No findings LLC No findings MACRO No milk
	14	F	DAY 5	Planned Necropsy	FLC Red spot back LLC No findings
	15	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings
ITTED 44	4	N.4	DAVE	Diagnord Mooranov	LLC No findings MACRO No milk
LITTER 44 15FEB2007		IVI	DATS	Planned Necropsy	FLC No findings LLC No findings MACRO No milk
	2	M	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	3	М	DAY 5	Planned Necropsy	MACRO No milk FLC No findings
	4	м	DAYS	Planned Necropsy	LLC No findings MACRO No findings FLC No findings
	7	171	JAIJ	r raining Mediopsy	LLC No findings MACRO No milk
	5	M	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	6	M	DAY 5	Planned Necropsy	MACRO No findings FLC No findings
	7	F	DAY 5	Planned Necropsy	LLC No findings MACRO No findings FLC No findings
	•	•	2, 0	. Idiniod Mooropay	LLC No findings MACRO No findings

LITTER DELIVERY	PU	Р	END OI	F P.P. PHASE	FINDINGS
GROUP 1 (
	8	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	9	F	DAY 5	Planned Necropsy	MACRO No milk FLC Small LLC No findings
	10	F	DAY 5	Planned Necropsy	MACRO No milk FLC Small LLC No findings
	11	F	DAY 5	Planned Necropsy	MACRO No findings FLC Small LLC No findings
	12	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	13	F	DAY 5	Planned Necropsy	MACRO No findings FLC Small LLC No findings
	14	F	DAY 5	Planned Necropsy	MACRO No milk FLC Small LLC No findings
	15	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	16	F	DAY 5	Planned Necropsy	MACRO No milk FLC Small LLC No findings
LITTER 45 15FEB2007		М	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	2	M	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	3	M	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	4	М	DAY 5	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
	5	М	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	6	М	DAY 5	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
	7	М	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	8	М	DAY 5	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
	9	М	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	10	F	DAY 5	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
	11	F	DAY 5	Planned Necropsy	MACRO No findings FLC No findings LLC No findings

LITTER DELIVERY	PU	Р	END O	F P.P. PHASE	FINDINGS
GROUP 1 (0	CON	ITR	OL)		
	12	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	13	F	DAY 5	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
	14	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	15	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings
LITTER 46	1	м	DAY 5	Planned Necropsy	LLC No findings MACRO No milk FLC No findings
14FEB2007					LLC No findings MACRO No milk
	2	М	DAY 5	Planned Necropsy	FLC No findings LLC No findings MACRO No milk
	3	М	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	4	M	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	5	М	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	6	М	DAY 5	Planned Necropsy	MACRO No milk FLC No findings
	7	М	DAY 5	Planned Necropsy	LLC No findings MACRO No milk FLC No findings
	8	M	DAY 5	Planned Necropsy	LLC No findings MACRO No milk FLC No findings
					LLC No findings MACRO No milk
	9	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings MACRO No milk
	10	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	11	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	12	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	13	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings
	14	F	DAY 5	Planned Necropsy	LLC No findings MACRO No milk FLC Red spot back
LITTER 47	1	м	DAY 5	Planned Necropsy	LLC No findings MACRO No milk FLC No findings
15FEB2007					LLC No findings MACRO No milk
	2	М	DAY 5	Planned Necropsy	FLC No findings LLC No findings MACRO No milk

LITTER DELIVERY	PU	IP	END O	F P.P. PHASE	FINDINGS					
GROUP 1 (CONTROL)										
	3	М	DAY 5	Planned Necropsy	FLC No findings LLC No findings					
	4	N.A	DAV 5	Planned Necroney	MACRO No findings					
	4	IVI	DATS	Planned Necropsy	FLC No findings LLC No findings					
	5	M	DAY 5	Planned Necropsy	MACRO No milk FLC No findings					
	Ŭ		DAT 0	r latified Necropsy	LLC No findings					
	6	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings					
	•	•	57110	riamica Nooropoy	LLC No findings					
	7	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings					
	•	•	0/110	r latifica Nocropsy	LLC No findings					
	8	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings					
	Ü	•	DATO	r larified Necropsy	LLC No findings					
	9	_	DAVE	Planned Necropsy	MACRO No milk FLC No findinas					
	3	•	סואם	r latified Necropsy	FLC No findings LLC No findings					
	40	=	DAVE	Planned Mooreney	MACRO No milk					
	10		DATO	Planned Necropsy	FLC No findings LLC No findings					
	44	_	DAVE	Diamad Nasanas	MACRO No milk					
	11	Г	DATS	Planned Necropsy	FLC No findings LLC No findings					
	12	_	DAVE	Diamand Nooranay	MACRO No milk					
	12	_	DATS	Planned Necropsy	FLC Red spot head LLC No findings					
	40	_	D41/ 5	DI INI	MACRO No milk					
	13	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings					
		_	541/5	DI	MACRO No milk					
	14	۲	DAY 5	Planned Necropsy	FLC No findings LLC No findings					
		_			MACRO No milk					
	15	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings					
					MACRO No milk					
LITTER 48 14FEB2007		М	DAY 6	Planned Necropsy	FLC No findings LLC No findings					
ITI EDZOO7					MACRO No milk					
	2	М	DAY 6	Planned Necropsy	FLC No findings LLC No findings					
					MACRO No findings					
	3	M	DAY 6	Planned Necropsy	FLC No findings LLC No findings					
					MACRO No findings					
	4	М	DAY 6	Planned Necropsy	FLC Small LLC No findings					
					MACRO No findings					
	5	F	DAY 6	Planned Necropsy	FLC No findings					
					LLC No findings MACRO No findings					
	6	F	DAY 6	Planned Necropsy	FLC Small					
					LLC No findings MACRO Small					
	7	М	DAY 6	Planned Necropsy	FLC No findings					
					LLC No findings MACRO No findings					

LITTER DELIVERY	PUP	END O	F P.P. PHASE	FINDINGS					
GROUP 1 (CONTROL)									
	8 M	DAY 6	Planned Necropsy	FLC Small LLC No findings					
	9 F	DAY 6	Planned Necropsy	MACRO No findings FLC Small					
				LLC No findings MACRO No findings					
	10 F	DAY 6	Planned Necropsy	FLC No findings LLC No findings					
	11 F	DAY 6	Planned Necropsy	MACRO No findings FLC No findings					
		2	,	LLC No findings MACRO Small					
	12 F	DAY 6	Planned Necropsy	FLC No findings					
	40 5	DAVE	Diamed Norman	LLC No findings MACRO No findings					
	13 F	DAY 6	Planned Necropsy	FLC No findings LLC No findings					
	14 F	DAY 6	Planned Necropsy	MACRO No findings FLC Small					
				DAY 4 Small LLC No findings					
	15 F	DAY 6	Planned Necropsy	MACRO Small FLC Small					
				LLC No findings MACRO No findings					
	16 F	DAY 6	Planned Necropsy	FLC No findings LLC No findings					
LITTER 49	1 1/1	DAVE	Planned Necropsy	MACRO No findings FLC No findings					
16FEB2007		DATS	Planned Necropsy	LLC No findings					
	2 M	DAY 5	Planned Necropsy	MACRO No findings FLC No findings					
				LLC No findings MACRO No findings					
	3 M	DAY 5	Planned Necropsy	FLC No findings LLC No findings					
	4 M	DAY 5	Planned Necropsy	MACRO No findings FLC No findings					
				LLC No findings MACRO No findings					
	5 M	DAY 5	Planned Necropsy	FLC No findings LLC No findings					
	6 14	DAYC	Diagnosi Massass	MACRO No findings					
	6 M	DAT 5	Planned Necropsy	FLC No findings LLC No findings					
	7 F	DAY 5	Planned Necropsy	MACRO No findings FLC No findings					
				LLC No findings MACRO No findings					
	8 F	DAY 5	Planned Necropsy	FLC No findings LLC No findings					
	9 F	DAY 5	Planned Necropsy	MACRO No findings FLC No findings					
				LLC No findings MACRO No findings					
	10 F	DAY 5	Planned Necropsy	FLC No findings					
		B.437.5	B	LLC No findings MACRO No findings					
	11 F	DAY 5	Planned Necropsy	FLC No findings LLC No findings					

LITTER DELIVERY	PUP	END O	F P.P. PHASE	FINDINGS
GROUP 1 (CONT	ROL)	· ·	
	12 F	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	13 F	DAVS	Planned Necropsy	MACRO No milk FLC No findings
	13 1	DAIS	Flatilled Necropsy	LLC No findings
	14 F	DAY 5	Planned Necropsy	MACRO No findings FLC No findings
				LLC No findings MACRO No findings
	15 F	DAY 5	Planned Necropsy	FLC No findings
				LLC No findings MACRO No findings
	16 F	DAY 5	Planned Necropsy	FLC No findings LLC No findings
				MACRO No milk
	17 F	DAY 5	Planned Necropsy	FLC No findings LLC No findings
				MACRO No findings
GROUP 2 (
LITTER 52 17FEB2007		DAY 5	Planned Necropsy	FLC No findings LLC No findings
III EBEOO				MACRO No milk
	2 N	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	3 N	DAVE	Planned Necropsy	MACRO No milk FLC No findings
	3 IV	DATS	Planned Necropsy	LLC No findings
	4 N	DAY 5	Planned Necropsy	MACRO No findings FLC No findings
	- "	. 5,	T lamba Ttooropoy	LLC No findings
	5 M	DAY 5	Planned Necropsy	MACRO No milk FLC No findings
				LLC No findings MACRO No milk
	6 M	DAY 5	Planned Necropsy	FLC No findings
				LLC No findings MACRO No milk
	7 M	DAY 5	Planned Necropsy	FLC No findings
				LLC No findings MACRO No findings
	8 M	DAY 5	Planned Necropsy	FLC No findings
				LLC No findings MACRO No milk
	9 F	DAY 5	Planned Necropsy	FLC No findings LLC No findings
				MACRO No findings
	10 F	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	44	DAYS	Diamod Names	MACRO No milk
	11 F	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	12 =	DAV 5	Planned Necropsy	MACRO No milk FLC No findings
	12 F	טאנו פ	r latined Nectopsy	LLC No findings
	13 F	DAY 4	Spontaneous death	MACRO No milk FLC No findings
	13 1	יייים א	oponicineous death	LLC Dead
				MACRO No milk

LITTER DELIVERY	PU	P	END O	F P.P. PHASE	FINDINGS				
GROUP 2 (50 MG/KG)									
	14	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings				
	15	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings				
		•	5, 0	· idiiiiod i tooropoy	LLC No findings				
	16	F	DAY 5	Planned Necropsy	MACRO No findings FLC No findings				
					LLC No findings MACRO No milk				
LITTER 53		М	DAY 6	Planned Necropsy	FLC No findings				
13FEB2007					LLC No findings MACRO No milk				
	2	М	DAY 6	Planned Necropsy	FLC No findings				
					LLC No findings MACRO No milk				
	3	М	DAY 6	Planned Necropsy	FLC No findings				
					LLC No findings MACRO No milk				
	4	М	DAY 6	Planned Necropsy	FLC No findings LLC No findings				
					MACRO No milk				
	5	М	DAY 6	Planned Necropsy	FLC No findings LLC No findings				
					MACRO No milk				
	6	М	DAY 6	Planned Necropsy	FLC No findings LLC No findings				
					MACRO No milk				
	7	М	DAY 6	Planned Necropsy	FLC No findings LLC No findings				
					MACRO No milk				
	8	M	DAY 6	Planned Necropsy	FLC Red spot back LLC No findings				
	_				MACRO No milk				
	9	M	DAY 6	Planned Necropsy	FLC No findings LLC No findings				
			541/0	Block Albertain	MACRO No milk				
	10	M	DAY 6	Planned Necropsy	FLC No findings LLC No findings				
			DAVC	Diagram Management	MACRO No milk				
	11	(VI	DATO	Planned Necropsy	FLC No findings LLC No findings				
	12	8.4	DAVE	Planned Mearaney	MACRO No milk FLC No findings				
	12	IVI	DATO	Planned Necropsy	LLC No findings				
	12	r.a	DAV 1	Dead at FLC	MACRO No milk FLC Dead				
					MACRO No milk				
	14	F	DAY 6	Planned Necropsy	FLC No findings LLC No findings				
		_			MACRO No milk				
	15	F	DAY 6	Planned Necropsy	FLC No findings LLC No findings				
		_	D4115	5 1	MACRO No milk				
	16	F	DAY 6	Planned Necropsy	FLC No findings LLC No findings				
		_	B 114.5	D. 44:	MACRO No milk				
	17	F	DAY 6	Planned Necropsy	FLC No findings LLC No findings				
					MACRO No milk				

LITTER DELIVERY	PU	IP	END O	F P.P. PHASE	FINDINGS
GROUP 2 (50 N	/IG/	KG)		
0				Planned Necropsy	FLC No findings LLC No findings
	19	F	DAY 6	Planned Necropsy	MACRO No milk FLC Red spots back
					LLC No findings MACRO No milk
LITTER 54 15FEB2007		М	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	2	М	DAY 5	Planned Necropsy	MACRO No milk FLC No findings
					LLC No findings MACRO No milk
	3	М	DAY 5	Planned Necropsy	FLC No findings
					LLC No findings MACRO No milk
	4	М	DAY 5	Planned Necropsy	FLC No findings LLC No findings
					MACRO No milk
	5	М	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	6	h.6	DAVE	Planned Negronsy	MACRO No findings FLC No findings
	6	IVI	DATS	Planned Necropsy	LLC No findings
	7	м	DAY 5	Planned Necropsy	MACRO No findings FLC No findings
	•			,,	LLC No findings MACRO No findings
	8	М	DAY 5	Planned Necropsy	FLC No findings
					LLC No findings MACRO No findings
	9	М	DAY 5	Planned Necropsy	FLC No findings
					LLC No findings MACRO No findings
	10	M	DAY 5	Planned Necropsy	FLC No findings LLC No findings
		_	54375	Die od Normanie	MACRO No findings
	11	۲	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	12	F	DAY 5	Planned Necropsy	MACRO No findings FLC No findings
	12	٠	DATE O	Tallica Neoropsy	LLC No findings
	13	F	DAY 5	Planned Necropsy	MACRO No findings FLC No findings
					LLC No findings MACRO No findings
	14	М	DAY 5	Planned Necropsy	FLC No findings
					LLC No findings MACRO No findings
	15	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings
					MACRO No findings
	16	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	17	E	DAV #	Planned Necropsy	MACRO No findings FLC No findings
	17	1	פואם	i iaimed Necropsy	LLC No findings
	18	F	DAY 5	Planned Necropsy	MACRO No findings FLC No findings
		-			LLC No findings MACRO No findings
					MINOLO NO IIIIUIIIGO

LITTER DELIVERY	Pί	JP	END O	F P.P. PHASE	FINDINGS
GROUP 2 (50 l				
LITTER 56 17FEB2007		М	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	2	М	DAY 5	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
	3	М	DAY 5	Planned Necropsy	MACRO No findings FLC No findings
	4	6.4	DAVE	Planned Necropsy	LLC No findings MACRO No findings
	4	IVI	DATS	Planned Necropsy	FLC No findings LLC No findings MACRO No findings
	5	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	6	F	DAY 5	Planned Necropsy	MACRO No findings FLC No findings
	7	F	DAY 5	Planned Necropsy	LLC No findings MACRO No findings FLC No findings
				. •	LLC No findings MACRO No findings
LITTER 57 17FEB2007		М	DAY 5	Planned Necropsy	FLC No findings LLC No findings MACRO No findings
	2	М	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	3	F	DAY 5	Planned Necropsy	MACRO No findings FLC No findings
	4	F	DAY 5	Planned Necropsy	LLC No findings MACRO No findings FLC No findings
	•			. •	LLC No findings MACRO No findings
	5	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings MACRO No findings
	6	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	7	F	DAY 5	Planned Necropsy	MACRO No findings FLC No findings
	8	F	DAY 5	Planned Necropsy	LLC No findings MACRO No findings FLC No findings
	Ū	•	2711	, idiiii.ou itoolopoy	LLC No findings MACRO No findings
	9 10	F		Missing Planned Necropsy	FLC No findings FLC No findings LLC No findings
	11	F	DAY 5	Planned Necropsy	MACRO No findings FLC No findings
		_	541/-	D	LLC No findings MACRO No findings
	12	r	DAY 5	Planned Necropsy	FLC No findings LLC No findings MACRO No findings
	13	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	14	F	DAY 5	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
					MACRO No findings

LITTER F DELIVERY	PUP	END (OF P.P. PHASE	FINDINGS
GROUP 2 (50	MG	S/KG)		
1	5 F	DAY 5	Planned Necropsy	FLC No findings LLC No findings
				MACRO No findings
LITTER 58 1 13FEB2007	N	1 DAY 6	Planned Necropsy	FLC No findings LLC No findings
	_			MACRO No milk
2	! F	DAY 6	Planned Necropsy	FLC No findings LLC No findings
				MACRO No milk
3	· N	DAY 6	Planned Necropsy	FLC No findings LLC No findings
				MACRO No milk
4	N	DAY 6	Planned Necropsy	FLC No findings
				LLC No findings MACRO No milk
5	N	DAY 6	Planned Necropsy	FLC No findings
				LLC No findings MACRO No findings
6	N	DAY 6	Planned Necropsy	FLC No findings
				LLC No findings
7		1 DAY 6	Planned Necropsy	MACRO No milk FLC No findings
•		. 2711 0	, lamina modropoy	LLC No findings
8		4 DAVE	Planned Necropsy	MACRO No milk FLC No findings
C	10	DAIO	Plantieu Necropsy	LLC No findings
	_	. DAY 0	. Diamand Name	MACRO No milk
9	F	DAY 6	Planned Necropsy	FLC No findings LLC No findings
				MACRO No milk
1	0 F	DAY 6	Planned Necropsy	FLC No findings LLC No findings
				LLC No findings MACRO No findings
1	1 F	DAY 6	Planned Necropsy	FLC No findings
				LLC No findings MACRO No milk
1	2 F	DAY 6	Planned Necropsy	FLC No findings
				LLC No findings MACRO No milk
1	3 F	DAY 6	Planned Necropsy	FLC No findings
				LLC No findings
1	4 F	DAY 6	Planned Necropsy	MACRO No milk FLC No findings
•			, ,,	LLC No findings
1	5 =	DAVE	Planned Necropsy	MACRO No milk FLC No findings
	J 1	טאו ט	Tianned Necropsy	LLC No findings
	۰ -	DAYO	Diamand Names	MACRO No milk
	6 F	DAY	Planned Necropsy	FLC No findings LLC No findings
				MACRO No milk
1	7 F	DAY 6	Planned Necropsy	FLC Red spot back LLC No findings
				MACRO No milk
LITTER 59 1	N	1 DAY 5	Planned Necropsy	FLC No findings
15FEB2007				LLC No findings MACRO No findings
2	N	DAY 5	Planned Necropsy	FLC No findings
				LLC No findings MACRO No findings

LITTER DELIVERY	PU	Ρ	END O	F P.P. PHASE	FINDINGS
GROUP 2 (5	io N	/IG/I	KG)		
	3	M	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	4	М	DAY 5	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
	5	F	DAY 5	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
	6	М	DAY 5	Planned Necropsy	MACRO No milk FLC No findings
	7	м	DAY 5	Planned Necropsy	LLC No findings MACRO No milk FLC No findings
					LLC No findings MACRO No milk
	8	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings MACRO No milk
	9	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	10	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	11	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	12	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings
	13	F	DAY 5	Planned Necropsy	LLC No findings MACRO No milk FLC No findings
					LLC No findings MACRO No milk
	14	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings MACRO No milk
	15	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	16	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
LITTER 60 14FEB2007	1	М	DAY 1	Killed in extremis	MACRO No milk FLC No findings LLC Cannibalism
	2	F	DAY 1	Killed in extremis	MACRO Cannabalism FLC No findings
	3	F	DAY 1	Killed in extremis	LLC Cannibalism MACRO Missing FLC No findings
	4	_	DAV 4	Killed in extremis	LLC No findings MACRO No findings FLC No findings
	4	г	DATI	MIRO III EXUEITIS	FLC No findings LLC Cannibalism MACRO Cannibalism
	5	F	DAY 1	Killed in extremis	FLC No findings LLC Cannibalism MACRO Cannibalism
	6	F	DAY 1	Killed in extremis	FLC No findings LLC Cannibalism

LITTER DELIVERY	PL	IP	END O	F P.P. PHASE	FINDINGS
GROUP 2	50 N	vig/	KG)		
	7			Killed in extremis	FLC No findings LLC Cannibalism
	8	F	DAY 1	Killed in extremis	MACRO Cannibalism FLC No findings LLC Cannibalism
	9	F	DAY 1	Killed in extremis	MACRO Cannibalism FLC No findings LLC Cannibalism
	10	F	DAY 1	Killed in extremis	MACRO Cannibalism FLC No findings LLC Cannibalism
	11	F	DAY 1	Killed in extremis	MACRO Cannibalism FLC No findings LLC Cannibalism
	12	F	DAY 1	Killed in extremis	MACRO Cannibalism FLC No findings LLC Cannibalism
	13	F	DAY 1	Killed in extremis	MACRO Cannibalism, stomach not present FLC No findings LLC Cannibalism MACRO Missing
GROUP 3 (150	MG	/KG)		·
	1			Planned Necropsy	FLC No findings LLC No findings
	2	М	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	3	М	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	4	М	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	5	М	DAY 5	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
	6	М	DAY 5	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
	7	М	DAY 5	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
	8	М	DAY 5	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
	9	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings MACRO No findings
	10	F	DAY 5	Planned Necropsy	MACRO No findings FLC No findings LLC No findings AMACRO No findings
	11	F	DAY 5	Planned Necropsy	MACRO No findings FLC No findings LLC No findings MACRO No findings
	12	F	DAY 5	Planned Necropsy	MACRO No findings FLC No findings LLC No findings MACRO No findings
					m ter te tre intellige

LITTER DELIVERY	PU	P 	END O	F P.P. PHASE	FINDINGS
GROUP 3 (150	MG	/KG)		
	13	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	14	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	15	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	16	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings
	17	F	DAY 5	Planned Necropsy	LLC No findings MACRO No findings FLC No findings
LITTER 62	1	м	DAY 6	Planned Necropsy	LLC No findings MACRO No milk FLC No findings
13FEB2007					LLC No findings MACRO No findings
	2	IVI	DAY	Planned Necropsy	FLC No findings LLC No findings MACRO No findings
	3 4	M		Missing Planned Necropsy	FLC No findings FLC No findings LLC No findings
	5	М	DAY 6	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
	6	М	DAY 6	Planned Necropsy	MACRO No findings FLC No findings
	7	М	DAY 6	Planned Necropsy	LLC No findings MACRO No findings FLC No findings
	8	м	DAY 6	Planned Necropsy	LLC No findings MACRO No findings FLC No findings
	9	F		Planned Necropsy	LLC No findings MACRO No findings FLC No findings
					LLC No findings MACRO No findings
	10	F	DAY 6	Planned Necropsy	FLC No findings LLC No findings MACRO No findings
	11	F	DAY 6	Planned Necropsy	FLC No findings LLC No findings MACRO No findings
	12	F	DAY 6	Planned Necropsy	FLC No findings LLC No findings
	13	F	DAY 6	Planned Necropsy	MACRO No findings FLC Pale LLC No findings
	14	F	DAY 6	Planned Necropsy	MACRO No findings FLC Pale LLC No findings
LITTER 63 16FEB2007		М	DAY 5	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
107602007	2	М	DAY 5	Planned Necropsy	MACRO No findings FLC No findings
					LLC No findings MACRO No findings

LITTER DELIVERY	PU	Р	END O	F P.P. PHASE	FINDINGS
GROUP 3 (150	MG	i/KG)		
-	3	M	DAY 5	Planned Necropsy	FLC No findings LLC No findings
					MACRO No findings
	4	М	DAY 5	Planned Necropsy	FLC No findings
					LLC No findings
	5	M	DAV 5	Planned Necropsy	MACRO No findings FLC No findings
	•	IVI	DAIS	r latified Necropsy	LLC No findings
					MACRO No milk
	6	M	DAY 5	Planned Necropsy	FLC No findings
					LLC No findings MACRO No milk
	7	М	DAY 5	Planned Necropsy	FLC No findings
	•		2711		LLC No findings
	_				MACRO No milk
	8	M	DAY 5	Planned Necropsy	FLC No findings
					LLC No findings MACRO No findings
	9	М	DAY 5	Planned Necropsy	FLC No findings
				, ,	LLC No findings
	40		DAY 5	Diament Manager	MACRO No milk
	10	IVI	DAYS	Planned Necropsy	FLC No findings LLC No findings
					MACRO No milk
	11	F	DAY 5	Planned Necropsy	FLC No findings
					LLC No findings
	12	=	DAVE	Planned Necropsy	MACRO No milk FLC No findings
	12	Г	DAIS	Flatilied Necropsy	LLC No findings
					MACRO No milk
	13	F	DAY 3	Missing	FLC No findings
	4.4	_	DAVO	Missing	LLC Missing FLC No findings
	14	г	DAIS	Missing	FLC No findings LLC Missing
	15	F	DAY 5	Planned Necropsy	FLC No findings
				, -	LLC No findings
	40	_	D4\/ 5	Diament Manager	MACRO No milk
	16	_	DAYS	Planned Necropsy	FLC No findings LLC No findings
					MACRO No milk
	17	М	DAY 5	Planned Necropsy	FLC No findings
					LLC No findings
	10	_	DAVS	Planned Necropsy	MACRO No milk FLC Red spot neck
	10	_	טאו ס	Flatilieu Necropsy	LLC No findings
					MACRO No milk
	19	F	DAY 5	Planned Necropsy	FLC No findings
					LLC No findings MACRO No milk
	20	F	DAY 5	Planned Necropsy	FLC No findings
		•	, 5		LLC No findings
					MACRO No milk
LITTER 64		М	DAY 6	Planned Necropsy	FLC No findings
13FEB2007					LLC No findings MACRO No findings
	2	М	DAY 6	Planned Necropsy	FLC No findings
					LLC No findings
	_		DAYC	Discount files	MACRO No findings
	3	M	DAY 6	Planned Necropsy	FLC No findings LLC No findings
					MACRO No findings

LITTER DELIVERY	PL	IP	END O	F P.P. PHASE	FINDINGS
GROUP 3 (150	MG	KG)		
· ·	4			Planned Necropsy	FLC No findings LLC No findings
	5	F	DAY 6	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
	6	F	DAY 6	Planned Necropsy	MACRO No findings FLC No findings
	7	F	DAY 6	Planned Necropsy	LLC No findings MACRO No findings FLC No findings
	•	•	DAT 0	rialined (vectopsy	LLC No findings MACRO No findings
	8	F	DAY 6	Planned Necropsy	FLC No findings LLC No findings MACRO No findings
	9	F	DAY 6	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
	10	F	DAY 6	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
	11	F	DAY 6	Planned Necropsy	MACRO No findings FLC No findings
	12	F	DAY 6	Planned Necropsy	LLC No findings MACRO No findings FLC No findings
	40	_	DAVE	Diamond bloorance	LLC No findings MACRO No findings
	13	r	DAY 6	Planned Necropsy	FLC No findings LLC No findings MACRO No findings
	14	F	DAY 6	Planned Necropsy	FLC No findings LLC No findings
	15	F	DAY 6	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
	16	F	DAY 6	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
	17	F	DAY 6	Planned Necropsy	MACRO No findings FLC No findings
	18	F	DAY 6	Planned Necropsy	LLC No findings MACRO No findings FLC No findings
ITTED 65	4				LLC No findings MACRO No findings
LITTER 65 13FEB2007	í	ivi	DATO	Planned Necropsy	FLC No findings LLC No findings MACRO No findings
	2	М	DAY 6	Planned Necropsy	FLC No findings LLC No findings MACRO No findings
	3	M	DAY 6	Planned Necropsy	FLC No findings LLC No findings
	4	М	DAY 6	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
	5	М	DAY 6	Planned Necropsy	MACRO No findings FLC No findings
					LLC No findings MACRO No findings

LITTER DELIVERY	PUP	END O	F P.P. PHASE	FINDINGS
GROUP 3	(150 M	G/KG)		
	6 N	1 DAY 6	Planned Necropsy	FLC No findings LLC No findings
	7 F	DAY 6	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
	8 F	DAY 6	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
	9 F	DAY 6	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
	10 F	DAY 6	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
	11 F	DAY 6	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
	12 F	DAY 6	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
	13 F	DAY 6	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
LITTER 66 16FEB2007		DAY5	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
	2 N	DAY5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	3 N	DAY5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	4 N	DAY5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	5 N	DAY5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	6 N	DAY5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	7 N	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	8 N	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	9 F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	10 F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	1 1 F	DAY 5	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
	12 F	DAY 5	Planned Necropsy	MACRO No findings FLC No findings LLC No findings

LITTER DELIVERY	PU	IP.	END O	F P.P. PHASE	FINDINGS
GROUP 3 (150	MG	/KG)		
	13	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	14	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	15	F	DAY 5	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
	16	F	DAY 5	Planned Necropsy	MACRO No findings FLC No findings
LITTER 67	1	М	DAY 5	Planned Necropsy	LLC No findings MACRO No findings FLC No findings
16FEB2007				, -	LLC No findings MACRO No findings
	2	IVI	DATS	Planned Necropsy	FLC No findings LLC No findings MACRO No milk
	3	М	DAY 5	Planned Necropsy	FLC No findings LLC No findings MACRO No findings
	4	М	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	5	М	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	6	M	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	7	М	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	8	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings
	9	F	DAY 5	Planned Necropsy	LLC No findings MACRO No findings FLC No findings
	10	_	DAVE	Planned Necropsy	LLC No findings MACRO No findings FLC No findings
					LLC No findings MACRO No findings
	11	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings MACRO No findings
	12	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings MACRO No milk
	13	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	14	F	DAY 3	Spontaneous death	MACRO No milk FLC Blue nose DAY 2 Blue nose
	15	F	DAY 5	Planned Necropsy	LLC Dead MACRO No milk FLC No findings
				Planned Necropsy	LLC No findings MACRO No milk
	סו	٢	טאז ס	гышей месторку	FLC No findings LLC No findings MACRO No milk

LITTER DELIVERY	PU	P	END O	F P.P. PHASE	FINDINGS
GROUP 3 (150	MG	/KG)		
•	17	F	DAY 5	Planned Necropsy	FLC No findings
					LLC No findings MACRO No milk
LITTER 68	1	М	DAY 5	Planned Necropsy	FLC No findings
16FEB2007					LLC No findings
	2	8.4	DAV 3	Missing	MACRO No milk FLC No findings
	3			Missing	FLC No findings
	4			Planned Necropsy	FLC No findings
					LLC No findings
	5	N 4	DAVE	Diagnord Nooranay	MACRO No milk FLC No findings
	5	IVI	DATS	Planned Necropsy	FLC No findings LLC No findings
					MACRO No milk
	6	М	DAY 5	Planned Necropsy	FLC No findings
					DAY 3 Wound nose
					DAY 4 Scab nose LLC Red nose
					MACRO No milk
	7			Missing	FLC No findings
	8	М	DAY 5	Planned Necropsy	FLC No findings
					LLC No findings MACRO No findings
	9	М	DAY 5	Planned Necropsy	FLC No findings
	_	•		·	LLC No findings
					MACRO No milk
	10	М	DAY 5	Planned Necropsy	FLC No findings LLC No findings
					MACRO No milk
	11	М	DAY 5	Planned Necropsy	FLC Wound left hindleg
				• •	DAY 2 Scab left hindleg
					DAY 3 Scab left hindleg
					DAY 4 Scab left hindleg LLC Scab left hindleg
					MACRO No milk
	12	F	DAY 5	Planned Necropsy	FLC No findings
					LLC No findings
	12	_	DAVE	Planned Necropsy	MACRO No milk FLC No findings
	13	'	DAIJ	Flailineu Necropsy	LLC No findings
					MACRO No milk
	14	F	DAY 5	Planned Necropsy	FLC No findings
					LLC No findings
	15	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings
		•	5711 0	r idiniod reocepcy	LLC No findings
					MACRO No milk
	16	F	DAY 5	Planned Necropsy	FLC No findings
					DAY 4 Blue abdomen LLC Blue abdomen
					MACRO No milk
				Missing	FLC No findings
LITTER 69	1	M	DAY 6	Planned Necropsy	FLC No findings
13FEB2007					LLC No findings MACRO No findings
	2	М	DAY 6	Planned Necropsy	FLC No findings
	_		J		LLC No findings
	_			m. 11:	MACRO No findings
	3	М	DAY 6	Planned Necropsy	FLC No findings
					LLC No findings MACRO No findings

LITTER DELIVERY	PU	IP	END O	F P.P. PHASE	FINDINGS
GROUP 3 (150	MG	i/KG)		
	4	М	DAY 6	Planned Necropsy	FLC No findings LLC No findings
	5	М	DAY 4	Spontaneous death	MACRO No findings FLC Red spot nose LLC No findings MACRO No milk
	6 7			Missing Planned Necropsy	FLC No findings FLC No findings LLC No findings
	8	F	DAY 6	Planned Necropsy	MACRO No findings FLC No findings LLC No findings
	9	F	DAY 6	Planned Necropsy	MACRO No findings FLC No findings LLC No findings MACRO No findings
	10	F	DAY 6	Planned Necropsy	FLC No findings LLC No findings MACRO No findings
	11	F	DAY 6	Planned Necropsy	FLC Small DAY 4 Small DAY 5 Small LLC Small MACRO No findings
	12	F	DAY 6	Planned Necropsy	FLC No findings LLC No findings MACRO No findings
	13	F	DAY 6	Planned Necropsy	FLC No findings LLC No findings MACRO No findings
	14	F	DAY 6	Planned Necropsy	FLC No findings LLC No findings MACRO No findings
	15	F	DAY 6	Planned Necropsy	FLC No findings LLC No findings MACRO No findings
	16	F	DAY 6	Planned Necropsy	FLC No findings LLC No findings MACRO No findings
	17	F	DAY 6	Planned Necropsy	FLC Small LLC No findings MACRO No findings
	18	F	DAY 6	Planned Necropsy	FLC Swelling head LLC No findings MACRO No findings
LITTER 70 15FEB2007	1			Planned Necropsy	FLC No findings LLC No findings MACRO No milk
	2			Planned Necropsy	FLC No findings LLC No findings MACRO No findings
	3	М	DAY 5	Planned Necropsy	FLC No findings LLC No findings MACRO No milk
	4	М	DAY 5	Planned Necropsy	FLC No findings LLC No findings MACRO No milk
	5	М	DAY 5	Planned Necropsy	FLC No findings LLC No findings MACRO No milk

LITTER DELIVERY	PU	JP	END O	F P.P. PHASE	FINDINGS						
GROUP 3	GROUP 3 (150 MG/KG)										
				Planned Necropsy	FLC No findings LLC No findings MACRO No milk						
	7	М	DAY 5	Planned Necropsy	FLC No findings LLC No findings						
	8	М	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings						
	9	М	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings						
	10	М	DAY 1	Dead at FLC	MACRO No milk FLC Dead MACRO No milk						
	11	М	DAY 1	Dead at FLC	FLC Dead						
	12	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings DAY 2 Red nose DAY 3 Red nose, red spots tail DAY 4 Red tail apex LLC Red tail apex MACRO No milk						
	13	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings MACRO No milk						
	14	M	DAY 5	Planned Necropsy	FLC No findings LLC No findings						
	15	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings						
	16	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings MACRO No milk						
	17	М	DAY 5	Planned Necropsy	FLC No findings LLC No findings MACRO No milk						
	18	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings MACRO No milk						
	19	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings MACRO No milk						
	20	F	DAY 1	Dead at FLC	FLC Dead MACRO No milk						
GROUP 4	500	MG	(KG)								
	1			Planned Necropsy	FLC No findings LLC No findings MACRO No findings						
	2	М	DAY 5	Planned Necropsy	FLC No findings LLC No findings MACRO No milk						
	3	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings						
	4	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings MACRO No findings						

LITTER DELIVERY	PU	JP	END O	F P.P. PHASE	FINDINGS
GROUP 4 (500				
LITTER 72 15FEB2007		М	DAY 5	Planned Necropsy	FLC Red spot back LLC No findings
	2	М	DAY 5	Planned Necropsy	MACRO No findings FLC Small
					DAY 2 Small
					DAY 3 Small DAY 4 Small
					LLC Small
	_		D 4 3 / 5	Discount Name	MACRO Small, no milk
	3	M	DAY 5	Planned Necropsy	FLC No findings LLC No findings
					MACRO No findings
	4	М	DAY 5	Planned Necropsy	FLC No findings
					LLC No findings MACRO No findings
	5	М	DAY 5	Planned Necropsy	FLC No findings
					LLC No findings
	6	F	DAV 5	Planned Necropsy	MACRO No milk FLC No findings
	U	•	טאו ט	rialified Necropsy	LLC No findings
		_			MACRO No findings
	7	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings
					MACRO No findings
LITTER 74 16FEB2007		М	DAY 5	Planned Necropsy	FLC No findings
	,				LLC No findings MACRO No milk
	2	М	DAY 5	Planned Necropsy	FLC Blue belly, no milk
	-			,	DAY 1 Blue abdomen
					DAY 2 Blue abdomen DAY 3 Blue abdomen
					LLC No findings
					MACRO No milk
	3	М	DAY 5	AY 5 Planned Necropsy FLC No findings LLC No findings	•
					MACRO No milk
	4	М	DAY 5 Planned Necropsy FLC No findings		
					LLC No findings
	5	М	DAY 5	Planned Necropsy	MACRO No milk FLC No findings
	Ŭ	•••	2, 0		LLC No findings
	_	_	DAVE	Diseased Nassesses	MACRO No milk
	6	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings
					MACRO No milk
	7	F	DAY 5	Planned Necropsy	FLC No findings
					LLC No findings MACRO No milk
	8	F	DAY 5	Planned Necropsy	FLC No findings
					LLC No findings
	9	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings
	•	•	5		LLC No findings
	_		DAYS	Diamand No.	MACRO No findings
LITTER 76 16FEB2007		M	DAY 5	Planned Necropsy	FLC No findings LLC No findings
TOPED2007					MACRO No milk
	2	М	DAY 5	Planned Necropsy	FLC No findings
					LLC No findings

LITTER DELIVERY	Pι	IP	END O	F P.P. PHASE	FINDINGS
GROUP 4 (500	MG	/KG)		
•	3	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings
	4	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	5	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	6	F	DAY 5	Planned Necropsy	MACRO No milk FLC No findings LLC No findings
	7	F	DAY 5	Planned Necropsy	MACRO No findings FLC No findings
	8	F	DAY 5	Planned Necropsy	LLC No findings MACRO No milk FLC No findings
1 177FD 70	4				LLC No findings MACRO No findings
LITTER 78 15FEB2007				Planned Necropsy	LLC No findings MACRO No findings
	2	М	DAY 5	Planned Necropsy	FLC No findings LLC No findings MACRO No findings
	3	М	DAY 2	Missing	FLC No findings
	4			Missing	FLC No findings
	5			Missing	FLC No findings
	6 7	M F		Missing Planned Necropsy	FLC Weak, blue FLC No findings LLC No findings
	_	_	541/6	h dia a tau a	MACRO No findings
	8 9	F		Missing Missing	FLC No findings FLC No findings
	10			Missing	FLC No findings
	11	-		Missing	FLC Weak, blue
LITTER 79 15FEB2007	1	M	DAY 1	Dead at FLC	FLC No findings MACRO No milk
	2	М	DAY 1	Dead at FLC	FLC No findings MACRO No milk
	3	М	DAY 1	Dead at FLC	FLC Dead
	4	F	DAY 2	Spontaneous death	MACRO No milk FLC No findings LLC Dead
	5	F	DAY 2	Spontaneous death	MACRO No milk FLC No findings LLC Dead
LITTER 80 15FEB2007		М	DAY 5	Planned Necropsy	MACRO No milk FLC No findings
	2	М	DAY 5	Planned Necropsy	LLC No findings MACRO No findings FLC No findings
					LLC No findings MACRO No findings
	3	ΙVΊ		Planned Necropsy	FLC No findings LLC No findings MACRO No findings
	4	F	DAY 5	Planned Necropsy	FLC No findings LLC No findings MACRO No findings

INDIVIDUAL PUP DATA F0-GENERATION - LACTATION

LITTER DELIVERY	PU	Р	END O	F P.P. PHASE	FINDI	NGS
GROUP 4 (500	MG	S/KG)			
				Planned Necropsy	FLC LLC MACR	No findings No findings O No findings
	6	F	DAY 5	Planned Necropsy	FLC LLC	No findings No findings O No findings
	7	F	DAY 5	Planned Necropsy	FLC LLC	No findings No findings O No findings

KEY TO MISSING VALUES AND REMARKS CLINICAL LABORATORY INVESTIGATIONS

End of Treatment	
Haematology:	
Animal(s):	
2, 6, 36, 52, 53, 58	Differential leucocyte count was also performed manually because
	of an abnormal plot in the automated count and these results are reported

Clinical Biochemist	y: No remarks

APPENDIX 3

ANALYTICAL REPORT

<u>Author</u>

Dr. Ir. E. Baltussen

Completion date analytical study

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Laboratory Project Identification

NOTOX Project 479003 NOTOX Substance 170676/A

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2. REPORT APPROVAL

PRINCIPAL SCIENTIST:	Dr. Ir. E. Baltussen (Analytical Chemistry)
	Date:

3. SUMMARY

The purpose of this part of the study was to determine the accuracy of preparation, homogeneity and stability of the test substance in formulations.

The concentrations analysed in the formulations of Group 2, Group 3 and Group 4 were in agreement with target concentrations (i.e. between 90% and 110%).

Small test substance peaks were observed in one of the two samples of the Group 1 formulation. The maximum contribution to the other samples of Groups 2-4 is 0.15% based on area. This was due to carry-over in the analytical system. In the second sample of the Group 1 formulation no test substance peaks were observed. Therefore it was concluded that Group 1 did not contain any test substance.

The formulations of Group 2 and Group 4 were homogeneous (i.e. coefficient of variation < 10%).

Formulations at the entire range were stable for at least 5 hours when stored at room temperature.

INTRODUCTION

4.1. Preface

: 08 January 2007 Study plan Start : 09 January 2007 (analytical study) Completion

4.2. Aim of the study

The purpose of the analytical study was to determine the accuracy of preparation, homogeneity and stability of the test substance in formulations.

MATERIALS AND METHODS

5.1. Reagents

Milli-Q water Tap water purified by a Milli-Q water purification system

(Millipore, Bedford, MA, USA)

5.2. Samples

Accuracy, homogeneity and stability were determined for formulations prepared for use on day 1.

Duplicate samples (approximately 1000 µl), which were taken from the formulations, were pipetted in a HPLC-vial. For determination of accuracy, samples were taken at 50% height or at 90%, 50% and 10% height. The latter set of samples was also used for the determination of the homogeneity of the formulations. For determination of stability, additional samples were taken at 50% height 1.

5.3. Analytical method

The chromatogram of the test substance solution showed two test substance peaks. The sum of the area of these peaks was used as response in the calculations.

5.3.1. **Analytical conditions**

Quantitative analysis was based on the analytical method validated for the test substance during NOTOX project 479025.

Analytical conditions:

Gas chromatograph 6890N Instrument

(Agilent Technologies, Palo Alto, CA, USA)

Injector CombiPal (CTC analytics, Zwingen, Zwitserland) Detector

Flame ionisation detector (Agilent Technologies)

Column CP-Volamine; 30 m \times 320 μ m i.d.

(Varian, Middelburg, The Netherlands)

helium Carrier gas Carrier gas flow 2 ml/min

Injection Programmed temperature vaporizer (PTV)

PTV Mode Split 100 Split ratio Split flow 200 ml/min

Injection volume $1 \mu l$

Because at t=0 samples were taken at 10% 50%, and 90% height, the mean concentration of these samples was used as t=0 value for calculation of stability.

PTV temperature program

Initial temperature 60°C
Initial time 0.1 min
Rate 600 °C/min
Final temperature 280 °C
Hold time 10 min

Oven temperature program

Initial temperature 40 °C
Rate 20 °C/min
Temperature 265 °C
Hold time 5 min

FID detection

Temperature 300°C
Hydrogen 40 ml/min
Air 450 ml/min
Nitrogen (make-up) 50 ml/min

5.3.2. Preparation of the calibration solutions

Stock- and spiking solutions

Stock- and spiking solutions of the test substance were prepared in Milli-Q water at concentrations of 14.5 - 49.6 g/l.

Calibration solutions

Calibration solutions in the concentration range 1.00 - 49.6 g/l were prepared from two stock solutions. The end solution of the calibration solutions was Milli-Q water.

Procedural recovery samples

Approximately 1000 mg blank vehicle was spiked with the test substance at a nominal concentration of 2.5 or 25 mg/ml. The accuracy samples were treated similarly as described in paragraph 5.2 'Samples'.

Note: the spiking volume was > 5% (v/v) of the sample volume. Nominal concentrations were corrected for the spiking volume.

5.3.3. Sample injections

Calibration solutions were injected in duplicate. Test samples and procedural recovery samples were analysed by single injection.

5.4. Electronic data capture

System control, data acquisition and data processing were performed using the following programme:

- Empower version 5.00 (Waters, Milford, MA, USA).

5.5. Formulas

Response (R)

Peak area test substance [units]

Calibration curve

$$R = aC_N + b$$

where:

C_N = nominal concentration [mg/l]

a = slope [units x l/mg]
b = intercept [units]

Analysed concentration (C_A)

$$C_A = \frac{(R-b)}{a}$$
 [mg/ml]

Recovery

$$\frac{C_A}{C_N} \times 100\%$$

where:

 $C_N = nominal concentration [mg/ml]$

Accuracy

$$\frac{C_A}{C_T} \times 100\%$$

where:

C_T = target concentration [mg/ml]

Relative difference (relative diff.)

$$\frac{C_t - C_0}{C_0} \times 100\%$$

where:

C_t = mean concentration of stored samples [mg/ml] C₀ = mean concentration of non-stored samples [mg/ml]

5.6. Specifications

Preparation of formulations was considered acceptable if the measured concentration levels were between 90% and 110% of the target concentrations and if the coefficient of variation was < 10%. Formulations were considered to be stable if the relative difference between the stored and freshly taken samples was < 10%.

6. RESULTS

6.1. Calibration curves

A calibration curve was constructed using four concentrations. For each concentration, two responses were used. Linear regression analysis was performed using the least squares method with a 1/concentration² weighting factor. The coefficient of correlation (r) was > 0.99.

HPLC chromatograms of a test substance solution and blank solution are shown in Figure 1. In the blank solution small test substance peaks were observed, this was due to carry-over in the analytical system.

6.2. Samples

6.2.1. Procedural recovery samples

The results for the procedural recovery samples are given in Table 1.

Mean recoveries of the procedural recovery samples were between 93% and 100%. Because the criterion that mean recoveries should be between 70% and 110% was met, the results for the test samples were accepted.

6.2.2. Test samples

The results of the test samples are given in Tables 2 and 3. Figure 2 shows GC chromatograms of samples from Group 1, Group 2, Group 3 and Group 4 taken at 50% height.

The concentrations analysed in the formulations of Group 2, Group 3 and Group 4 were in agreement with target concentrations (i.e. between 93% and 105%).

Small test substance peaks were observed in one of the two samples of the Group 1 formulation. The maximum contribution to the other samples of Groups 2-4 is 0.15% based on area. This was due to carry-over in the analytical system. In the second sample of the Group 1 formulation no test substance peaks were observed. Therefore it was concluded that Group 1 did not contain any test substance.

The formulations of Group 2 and Group 4 were homogeneous (2.5% and 3.3% relative standard deviation, respectively).

Analysis of Group 2 and Group 4 formulations after 5 hours of storage at room temperature yielded a relative difference of –2.5% and –1.5%, respectively. Therefore, the samples were considered stable at room temperature for at least at 5 hours.

TABLES

Table 1 Procedural recovery samples

Date of preparation [dd-mm-yy]	Date of analysis [dd-mm-yy]	Concentration nominal [mg/ml]	Concentration analysed [mg/ml]	Recovery [%]	Mean recovery [%]
08-01-07	08-01-07	2.36 2.36	2.20 2.26	93 96	95
08-01-07	08-01-07	26.5 22.6	25.4 22.6	96 100	98

 Table 2
 Accuracy and homogeneity test for the formulations

Group	Date of analysis	Sample position	position		Accuracy	Homogeneity (coefficient of
	[dd-mm-yy]			g/ml]		variation)
			Target	Analysed	[%]	[%]
1	08-01-07	50% height	0.00	1	1	
				n.d.	n.a.	
2	08-01-07	90% height	2.50	2.39	96	
				2.47	99	
		50% height	2.50	2.40	96	2.5
		_		2.32	93	
		10% height	2.50	2.33	93	
				2.32	93	
3	08-01-07	50% height	7.50	7.22	96	
		J		7.06	94	
4	08-01-07	90% height	25.0	24.3	97	
				24.8	99	
		50% height	25.0	26.2	105	3.3
				24.3	97	
		10% height	25.0	25.4	102	
				24.0	96	
<u></u>				<u> </u>		

n.d. Not detected.

n.a. Not applicable.

A peak was observed at the test substance position, the maximum contribution to the samples of Groups 2-4 was 0.15% based on area.

 Table 3
 Stability test for the formulations prepared

Group	Date of analysis	Concentration a	Relative diff.	
***************************************	[dd-mm-yy]	t=0 1	t=5 hours	[%]
2	08-01-07	2.37	2.31 ²	-2.5
4	08-01-07	24.8	24.5 ³	-1.5

Mean of six samples at t=0 taken at 10%, 50% and 90% height. For individual results see Table 2.

Mean of two samples at t=5 hours taken at 50% height. Individual results were 2.30 and 2.32 mg/ml.

Mean of two samples at t=5 hours taken at 50% height. Individual results were 24.8 and 24.1 mg/ml.

FIGURES

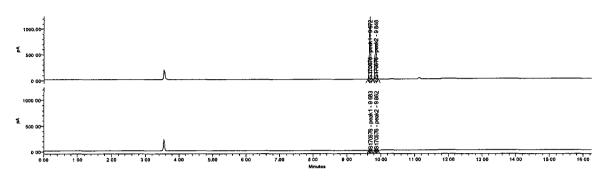


Figure 1 GC chromatograms of a 49.6 mg/l calibration solution [top; res. id. 1151] and blank Milli-Q water [bottom; res. id. 1314].

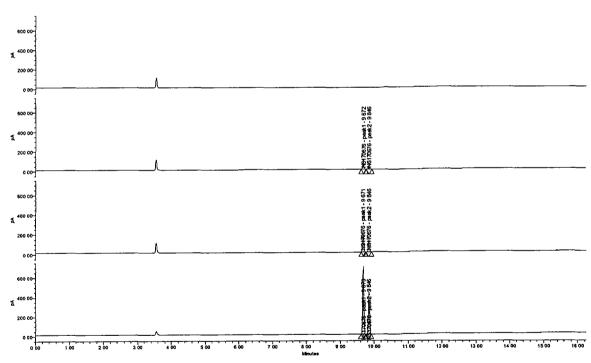


Figure 2 GC chromatograms from top to bottom of samples from Group 1 [res. id. 1316], Group 2 [res. id. 1279], Group 3 [res. id. 1319] and Group 4 [res. id. 1291].

ProPath GmbH

APPENDIX 4

Draft Pathology Report

Combined 28-Day Repeated Dose Toxicity Study with the

Reproduction/Developmental Toxicity

Screening Test of Dytek® DCH-99

in Rats by Oral Gavage

NOTOX Project 479003 NOTOX Substance 170676/A

This report contains 92 pages

Dr. J.Th. Wilson Bahnhofstr. 27 Pratteln 4133 Switzerland

tel: +41 61 811 72 13 fax: +41 61 811 72 14

Test item : Dytek® DCH-99
Test System : Combined Repro/Tox Screening Test by Gavage in Rats
Sponsor : Invista S.a.r.I.

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NOTOX no. : Propath no. : Date :

479003 07014

: 23.May.2007

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Test item : Dytek® DCH-99
Test System : Combined Repro/Tox Screening Test by Gavage in Rats

Propath no. : Invista S.a.r.l. Date 23.May.2007 Sponsor

Statement of Compliance

The undersigned hereby declares, that the histopathology data in this report were compiled by him, and that they reflect accurately the primary data records. This report, consisting of 92 pages, was created by the computer system of Propath GmbH.

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479003

07014

Page

NOTOX no. :

This study phase was conducted in compliance with:

Swiss Ordinance relating to Good Laboratory Practice, adopted May 18th, 2005 [SR 813.112.1]. This Ordinance is based on the OECD Principles of Good Laboratory Practice, as revised in 1997 and adopted November 26th, 1997 by decision of the OECD Council [C(97)186/Final].

which essentially conform to:

The United States Food and Drug Administration Good Laboratory Practice Regulations and

The United States Environmental Protection Agency Good Laboratory Practice Regulations.

Jeffrey Th. Wilson, Dr.med.vet, BVSc, MSc, MRCVS Principal Investigator - Toxicologic Pathologist

Date:

Propath GmbH CH-4133 Pratteln, Switzerland

Test item : Dytek® DCH-99

Test System : Combined Repro/Tox Screening Test by Gavage in Rats Sponsor : Invista S.a.r.l.

NOTOX no. :

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Propath no.

479003 07014

Date

23.May.2007

Quality Assurance Statement

The facilities of Propath GmbH are periodically (4x/year) inspected by the Quality Assurance Unit (CERTUS Quality Assurance Services GmbH). This report was inspected by the Quality Assurance Unit (CERTUS).

The respective dates are given below:

Inspection type	Date(s) of inspection	Date(s) of reporting
Facility based inspection (latest):	26.04.2007	26.04.2007
Report inspection:		

The findings were reported to the test facility (Propath) management (only inspection of test facility (test site) Propath), the principal investigator, the study director, the management of the test facility of the study director and the "lead QA".

The methods, procedures and observations described were found to be accurately described and the reported results to reflect the raw data.

A. Brüggen QA Inspector

Date:

CERTUS Quality Assurance Services GmbH CH-4125 Riehen, Switzerland QAU of Propath GmbH

Test item : Dytek® DCH-99

Test System : Combined Repro/Tox Screening Test by Gavage in Rats

Sponsor : Invista S.a.r.I.

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NOTOX no. :

479003 07014

Propath no. Date

23.May.2007

Summary

Pathomorphologic examination was performed on 80 Wistar rats (40 males, 40 females) which had been subjected to a combined repeated dose toxicity study with reproduction/developmental toxicity screening test, with the test item **Dytek**® **DCH-99**.

The rats were assigned to four dose groups each containing ten males and ten females. The test item was administered once daily by gavage at doses of 50, 150 and 500 mg/kg (dose groups 2, 3 and 4 respectively) for 2 weeks prior to mating, during mating and up to the day prior to necropsy – at least a total of 28 days dosing. The rats of the control group 1 received the vehicle, water (milli U), alone.

All rats were necropsied. Histopathologic examination was performed on an extensive list of organs and tissues from five males and five females of groups 1 and 4, as well as **adrenal glands** (males), **kidneys**, **liver**, **lungs** and **thymus** from groups 2 and 3 and gross lesions from all rats. In addition the reproductive organs of animals suspected of infertility were also examined. Sections of testes from five group 1 and 4 rats were assessed for spermatogenesis staging.

There were no unscheduled deaths.

At necropsy pale discolouration of the liver was noted in five group 4 (500 mg/kg/day) males.

Treatment related morphological alterations were recorded in several organs

In the *lungs*, alveolar macrophage foci were increased in incidence and severity to moderate in group 4 females (p <0.05). In the same organ *lymphocytic alveolar inflammation* was slightly increased in incidence (positive trend p <0.05) in males and in incidence and severity to moderate in females (p <0.05).

In the *liver*, *hepatocellular vacuolation* at a minimal or slight degree was seen in four group 4 males and in three group 4 females. This incidence did not reach statistical significance in either sex, however there was a positive trend (p at least <0.05) for both sexes.

In the *adrenal glands* of males *vacuolation in the zona fasiculata* at minor degrees of severity was slightly increased in incidence in group 4 which was not significant. However there was a positive trend (p <0.05).

These findings were chiefly minor in nature and may be regarded as either slight increases in spontaneously occurring conditions or adaptive. As such they were considered to be indicators of slight toxicity to the test-item. From a toxicological standpoint the NOAEL may be regarded as 150 mg/kg/day.

In male animals suspected of infertility: one control versus seven treated (groups 2 and 4) there were no findings in the reproductive organs of any of the animals which would account for poor reproductive performance. Further, the spermatogenic staging profiles were normal for all group 1 and group 4 males evaluated.

From a total of seven treated females (groups 2 and 4) compared to one control examined for suspected infertility, there was evidence suggestive of foetal loss in three and evidence of oestrus cycle disturbance in a further two. The remaining two had uterine implantation sites. No adverse morphological alterations were noted in the reproductive organs of the one control animal. These findings indicate that in females, treatment with the test compound may have had an adverse affect on the animals reproductive performance.

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Materials and Methods

Study Design

Dose	Dose mg/kg/day	Number of rats		Animal numbers	
group	Dytek [®] DCH-99	F ₀ males	F₀ females	males	females
1	0	10	10	1 — 10	41 – 50
2	50	10	10	11 – 20	51 – 60
3	150	10	10	21 – 30	61 – 70
4	500	10	10	31 – 40	71 - 80

Administration of the Test Item

The test item was administered once daily by gavage for 2 weeks prior to mating, during mating and up to the day prior to necropsy – at least a total of 28 days dosing. Rats of the control group 1 received the vehicle, water (milli U), alone.

Necropsy and Histopathology

At the end of the assigned study period, the rats were killed by exsanguination following anesthesia by isoflurane. Complete necropsies were performed on all rats. From 5 selected surviving animals per sex and group:

males:		females
Group 1	1, 2, 4, 6, 7	42, 44, 45, 47, 48
Group 2	12, 13, 14, 16, 17	52, 53, 54, 58, 59
Group 3	21, 22, 23, 24, 25	62, 63, 64, 66, 70
Group 4	31, 32, 34, 35, 36	71, 72, 78, 79, 80

representative tissue samples of the following organs were preserved in 4% phosphate buffered neutral formaldehyde solution (10% formalin). Testes, epididymides, eyes, optic nerves and Harderian glands were initially fixed in Davidson's solution. Organs listed in **bolded italics** were sampled and fixed from all animals.

Adrenal glands, aorta, bone – sternum [and femur including joint]; bone marrow - sternal, brain, *clitoral glands*, *epididymides*, esophagus, [eyes with optic nerve and Harderian glands]; heart, [identification marks], *kidneys*, [lacrimal glands - exorbital], large intestine - cecum, colon and rectum; [larynx], *liver*, lungs, lymph nodes - mandibular and mesenteric; [female mammary gland area], [nasopharynx], *ovaries*, pancreas, pituitary gland, *preputial glands*, *prostate gland*, [salivary glands – mandibular and sublingual]; sciatic nerve, *seminal vesicles with coagulation glands*, [skeletal muscle], [skin], small intestine - duodenum, jejunum and ileum with Peyer's patches; spinal cord - cervical, midthoracic and lumbar; spleen, *stomach*, *testes*, thymus, thyroid glands with parathyroid glands, [tongue], trachea, urinary bladder, *uterus with uterine cervix*, *vagina* and all organs or tissues with *macroscopic abnormalities*.

Following fixation, organs (except those listed in brackets) from the selected animals of groups 1 and 4, along with all organs or tissues with macroscopic abnormalities from all rats, were trimmed, processed and embedded in paraffin wax. Sections were cut at a thickness of 2-4 micrometers and stained with hematoxylin and eosin.

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Materials and Methods

Following examination of these tissues, sections of **adrenal glands** (males), **kidneys**, **liver**, **lungs** and **thymus** from the above listed 5 selected animals of the intermediate dose groups 2 and 3 were prepared and examined:

Extra sections of testes stained by the PAS method from the selected males of groups 1 and 4 were prepared for spermatogenesis staging.

From animals suspected of infertility:

 males:
 females

 Group 1
 10
 50

 Group 2
 11, 15, 20
 51, 55, 60

 Group 3

 Group 4
 33, 35, 37, 39
 73, 75, 77, 79

sections were prepared from the reproductive organs.

The sections were examined by light microscopy in April/May, 2007.

Data Compilation

The animal data and macroscopic findings were electronically transferred from the necropsy raw data files of NOTOX into the computer system of Propath GmbH where the microscopic findings were recorded by the undersigned pathologist using on-line input.

Macroscopic findings are presented in summary in Table 1 - Incidence All Macroscopic Findings and in full descriptive terms in Table 7 - Individual Animal Data Records. Wherever possible, macroscopic findings were correlated with a microscopic finding.

Microscopic findings are listed for each animal along with severity grades in Table 5 - Individual Animal Microscopic Findings and summarized in Table 2 - Incidence – Selected Microscopic Findings with Grades and Table 4 - Incidence All Microscopic Findings. They are further given in full descriptive terms in Table 7 - Individual Animal Data Records. Histologic changes were described according to their distribution and morphologic character and were graded for severity on a scale of 1 – 5 (see key Table 5 - Individual Animal Microscopic Findings). The results of spermatogenesis staging are presented in Table 8 - Staging of Spermatogenesis.

Statistical analyses of selected microscopic findings are listed in Table 3 - Statistical Analyses Selected Microscopic Findings.

Archiving

The final pathology report (original hardcopy), all histologic slides, dispatch list(s) and a copy of the electronic records and final pathology report as captured by the appropriate software (on CD-ROM) will be sent to NOTOX B.V. to archive. Any other documents and electronic data covered by GLP, will be archived by Propath GmbH according to company standard operating procedures.

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Results

Mortality

There were no unscheduled deaths.

Macroscopic Findings

Discolouration, pale of the **liver** was noted in five group 4 (500 mg/kg/day) males. The remaining macroscopic findings were considered to be spontaneous in nature and did not distinguish treated animals from the controls.

Microscopic Findings

In the *lungs*, alveolar macrophage foci were noted at a minimal degree in one group 3 (150 mg/kg/day) and at a slight degree in one group 4 male animals. In females this finding was present at a slight degree of severity in one group 1 (0 mg/kg/day, control) and at slight or moderate severity in five group 4 animals which was significantly increased (p <0.05). In the same organ *lymphocytic alveolar inflammation* was recorded at a slight degree in one group 1, minimal in one group 3 and also at a minimal degree in four group 4 males. In females, one animal in each of groups 1, 2 (50 mg/kg/day) and 3 recorded this finding at a minimal degree and in group 4, five animals at minimal to moderate degree. Again this was significantly increased in group 4 females (p <0.05) and there was a positive trend (p <0.05) in males.

In the *liver*, hepatocellular vacuolation at a minimal or slight degree was seen in four group 4 males and in three group 4 females. This incidence did not reach statistical significance in either sex, however there was a positive trend (p at least <0.05) for both sexes. This finding was the microscopic correlate to the pale discolouration in this organ noted at necropsy.

Corticomedullary tubular basophilia at a minimal or slight degree was recorded in the **kidneys** of males: two in group 1, one in group 3 and two in group 4; in females: one in group 1 and three in groups 2 and 4. This was neither significantly increased or positive in trend for either sex.

In the adrenal glands of males vacuolation in the zona fasiculata was seen at a minimal degree in two group one, two group 2, slight degree in one group 3 and at minimal or slight degree in four group 4 animals. This slight increase in group 4 was not significant, however again there was a positive trend (p < 0.05).

Lymphoid atrophy – involution of the **thymus** was recorded in males: at minimal degree one group 1, slight in one group 3 and slight in two group 4 animals; in females: at minimal to moderate in four group 1, minimal in one group 3 and slight or moderate in three group 4 animals. This was neither significantly increased or positive in trend for either sex.

In male animals suspected of infertility there were no findings in the reproductive organs of any of the animals which would account for poor reproductive performance. In the females *implantation sites* were in evidence in animals 60 (group 2) and 79 (group 4). Animal 51 (group 2) exhibited *endometrial squamous metaplasia*, animal 55 (group 2) had a *deciduoma* and animal 75 (group 4) had *endometrial inflammation*. These latter findings may be considered as evidence for foetal loss. Animals 73 and 77 (group 4) had vaginal *epithelial mucification* (possible oestrus cycle disturbance). In animal 50 (control) there were no findings to account for infertility.

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Results

The spermatogenic staging profiles were normal for all group 1 and group 4 males evaluated.

The remainder of the recorded microscopic findings were within the range of background pathology encountered in Wistar rats of this age and occurred at similar incidences and severity in both control and treated rats.

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Conclusions

Following the administration of **Dytek**® **DCH-99** by once daily gavage to Wistar rats at doses up to 500 mg/kg for 2 weeks prior to mating, during mating and up to the day prior to necropsy – at least a total of 28 days dosing, there were some minor morphological alterations in several organs.

In the *lungs*, alveolar macrophage foci were increased in incidence and severity to moderate in group 4 females (p <0.05). In the same organ *lymphocytic alveolar inflammation* was slightly increased in incidence (positive trend p <0.05) in males and in incidence and severity to moderate in females (p <0.05).

In the *liver*, hepatocellular vacuolation at a minimal or slight degree was seen in four group 4 males and in three group 4 females. This incidence did not reach statistical significance in either sex, however there was a positive trend (p at least <0.05) for both sexes.

In the *adrenal glands* of males *vacuolation in the zona fasiculata* at minor degrees of severity was slightly increased in incidence in group 4 which was not significant. However there was a positive trend (p <0.05).

These findings were chiefly minor in nature and may be regarded as either slight increases in spontaneously occurring conditions or adaptive. As such they were considered to be indicators of slight toxicity to the test-item. From a toxicological standpoint the NOAEL may be regarded as 150 mg/kg/day.

In male animals suspected of infertility: one control versus seven treated (groups 2 and 4) there were no findings in the reproductive organs of any of the animals which would account for poor reproductive performance. Further, the spermatogenic staging profiles were normal for all group 1 and group 4 males evaluated.

From a total of seven treated females (groups 2 and 4) compared to one control examined for suspected infertility, there was evidence suggestive of foetal loss in three and evidence of oestrus cycle disturbance in a further two. The remaining two had uterine implantation sites. No adverse morphological alterations were noted in the reproductive organs of the one control animal. These findings indicate that in females, treatment with the test compound may have had an adverse affect on the animals reproductive performance.

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Table 1 Incidence All Macroscopic Find	lings
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SEX: DOSE GROUP:	MA 1	L E 2	3 4		FEMALE 1 2		3	4
number of animals	10	10	10	10	10	10	10	10
Lungs								
Focus/foci	0	0	0	0	0	0	0	4
Stomach								
Reddish contents	0	0	0	0	0	1	0	0
Liver								
Discolouration Diaphragmatic hernia	0 0	0 0	0 0	5 0	0 0	0 0	0 1	0 0
Kidneys								
Pelvic dilation	1	0	0	0	0	0	0	0
Seminal vesicles								
Reduced in size	0	1	1	0				
<u>Uterus</u>								
Contains fluid Enlarged					0 0	1 1	0 0	0 0
Cervix								
Enlarged					0	1	0	0
Adrenal glands								
Enlarged	0	0	0	0	0	1	0	0
Mandibular lymph nodes								
Discolouration	0	0	0	0	2	0	0	1
Skin								
Alopecia	0	0	0	0	0	1	0	0
Bone								
Bent	1	1	0	0	0	0	0	0

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Table 2	Incidence -	Selected Microsco	opic Findings wi	th Grades
---------	-------------	-------------------	------------------	-----------

SEX:	MALE				FEN			
DOSE GROUP:	1	2	3	4	1	2	3	4
number of animals	10	10	10	10	10	10	10	10
Lungs								
number examined	5	5	5	5	5	5	5	5
Alveolar macrophage foci								
(minimal)	0	0	1	0	0	0	0	0
(slight)	0	0	0	1	1	0	0	3
(moderate)	0	0	0	0	0	0	0	2
Total	0	0	1	1	1	0	0	5
Alveolar inflammation,								
lymphocytic								
(minimal)	0	0	1	4	1	1	1	1
(slight)	1	0	0	0	0	0	0	2
(moderate)	0	0	0	0	0	0	0	2
Total	1	0	1	4	1	1	1	5
Liver								
number examined	5	5	5	7	5	5	5	5
Hepatocellular vacuolation								
(minimal)	0	0	0	3	0	0	0	2
(slight)	0	0	0	1	0	0	0	1
Total	0	0	0	4	0	0	0	3

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Table 2	Incidence -	- Selected	Microscopic	Findings	with Grades

SE	X: MA	LE			FEI	MALE		
DOSE GROU	P: 1	2	3	4	1	2	3	4
number of animals	10	10	10	10	10	10	10	10
Kidneys								
number examined	6	5	5	5	5	5	5	5
Tubular basophilia, corticomedullary								
<pre>(minimal) (slight)</pre>	2	0 0	1 0	2 0	1 0	2 1	0 0	3 0
Total	2	0	1	2	1	3	0	3
Adrenal Glands								
number examined	5	5	5	5	5	1		5
Vacuolation, multifocal in z. fasiculata								
(minimal)	2	2	0	1	0	0		0
(slight)	0	0	1	3	0	0		0
Total	2	2	1	4	0	0		0
Thymus								
number examined	5	5	5	5	5	5	5	5
Lymphoid atrophy - involution								
(minimal)	1	0	0	0	1	0	1	0
(slight) (moderate)	0	0 0	1 0	2 0	2 1	0 0	0 0	2 1
· ·					_	•		
Total	1	0	1	2	4	0	1	3

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Table 3	Statistical	Anaivees	Selected	Microscopio	Findings
i abie 3	Statistical	MIIdIVSES	Selected	MILLIOSCODIC	FIIIUIIIUS

Г	OOSE GROUP:	1	2	3	4	Trend
Lungs Alveolar macrophag	re foci					
Male	n N Min Max Ex P KW P	0 5 0 0	0 5 0 0 N.S. N.S.	1 5 0 1 N.S.	1 5 0 2 N.S. N.S.	N.S. N.S.
Female	n N Min Max Ex P KW P	1 5 0 2	0 5 0 0 N.S. N.S.	0 5 0 0 N.S. N.S.	5 5 2 3 + (+)	+++
Lungs Alveolar inflammat lymphocytic	ion,					
Male	n N Min Max Ex P KW P	1 5 0 2	0 5 0 0 N.S.	1 5 0 1 N.S.	4 5 0 1 N.S.	++
Female	n N Min Max Ex P KW P	1 5 0 1	1 5 0 1 N.S.	1 5 0 1 N.S.	5 5 1 3 +	++ +++
Liver Hepatocellular vac	uolation					
Male	n N Min Max Ex P KW P	0 5 0 0	0 5 0 0 N.S. N.S.	0 5 0 0 N.S. N.S.	4 7 0 2 N.S. N.S.	++ ++
Female	n N Min Max Ex P KW P	0 5 0 0	0 5 0 0 N.S.	0 5 0 0 N.S.	3 5 0 2 N.S.	+ ++

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Table 3 **Statistical Analyses Selected Microscopic Findings**

	DOSE GROUP:	1	2	3	4	Trend
Kidneys Tubular basophil corticomedullar						
Male	n	2	0	1	2	
	N	6	5	5	5	
	Min	0	0	Ö	0	
	Max	1	0	1	1	
	Ex P		N.S.	N.S.	N.S.	N.S.
	KW P		N.S.	N.S.	N.S.	N.S.
Female	_	7	2	0	2	
remare	n N	1 5	3 5	0 5	3 5	
	Min	0	0	0	0	
	Max	1	2	0	1	
	Ex P	1	N.S.	n.s.	N.S.	N.S.
	KW P		N.S.	N.S.	N.S.	N.S.
Adrenal Glands						
Vacuolation, mul	tifocal in					
z. fasiculata						
Male	n	2	2	1	4	
	N	5	5	5	5	
	Min	0	0	0	0	
	Max	1	1	2	2	
	Ex P		N.S.	N.S.	N.S.	N.S.
	KW P		N.S.	N.S.	N.S.	+

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Table 3 Statistical Analyses Selected Microscopic Findings

DOSE	GROUP:	1	2	3	4	Trend
Thymus Lymphoid atrophy - involution						
Male	n	1	0	1	2	
	N	5	5	5	5	
	Min	0	0	0	0	
	Max	1	0	2	2	
	Ex P		N.S.	N.S.	N.S.	N.S.
	KW P		N.S.	N.S.	N.S.	N.S.
Female	n	4	0	1	3	
	N	5	5	5	5	
	Min	0	0	0	0	
	Max	3	0	1	3	
	Ex P		_	N.S.	N.S.	N.S.
	KW P		(-)	N.S.	N.S.	N.S.

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Incidence All Microscopic Findings Table 4

SEX:	MALE			FEMALE				
DOSE GROUP:	1	2	3	4	1	2	3	4
number of animals	10	10	10	10	10	10	10	10
Brain								
number examined	5			5	5			5
Spinal Cord - cervical								
number examined	5			5	5			5
Spinal Cord - midthoracic								
number examined	5			5	5			5
Spinal Cord - lumbar								
number examined	5			5	5			5
Axonal swelling, focal	0			0	2			0
Sciatic Nerve								
number examined	5			5	5			5
Myelin fragmentation	2			3	0			0
Heart								
number examined	5			5	5			5
Inflammation, lymphoid	0			0	0			1
Myofiber necrosis	0			0	0			1
Aorta								
number examined	5			5	5			5
Trachea								
number examined	5			5	5			5
Lungs								
number examined	5	5	5	5	5	5	5	5
Alveolar macrophage foci	0	0	1	1	1	0	0	5
Alveolar inflammation, lymphocytic	1	0	1	4	1	1	1	5

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Table 4 Incidence All Microscopic Finding	able 4	Incidence	АII	MICTOSCO	DIC	Finding
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	SEX:	MA					MALE			
DOSE GR	OUP:	1	2	3	4	1	2	3	4	
number of animals		10	10	10	10	10	10	10	10	
Lungs										
Peri- vascular/bronchial, inflammatory cell foci		2	0	0	1	0	0	0	0	
Lymphoid hyperplasia (BAL	T)	2	1	0	0	0	0	0	0	
Osseous metaplasia		0	1	1	0	0	1	0	0	
Esophagus										
number examined		5			5	5			5	
Myodegeneration, focal		2			0	2			0	
Stomach										
number examined		5			5	5	1		5	
Dilated gastric pits		0			0	1	0		2	
Duodenum										
number examined		5			5	5			5	
Jejunum										
number examined		5			5	5			5	
Ileum										
number examined		5			5	5			5	
Peyer's Patches (GALT)										
number examined		5			5	5			5	
Cecum										
number examined		5			5	5			5	
Colon										
number examined		5			5	5			5	
Rectum										
number examined		5			5	5			5	

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Table 4	Incidence	All Microscopic	Findings
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SEX: DOSE GROUP:	MALE 1 2		3 4		FEM 1	ALE 2	3	4
number of animals	10	10	10	10	10	10	10	10
Liver								
number examined	5	5	5	7	5	5	5	5
Hepatodiaphragmatic nodule	0	0	0	0	0	0	1	0
Inflammation, granulocytic/ mononuclear	5	5	5	6	4	4	2	3
Hepatocellular vacuolation	0	0	0	4	0	0	0	3
Hematopoietic cell foci	0	0	1	0	1	0	1	1
Pancreas								
number examined	5			5	5			5
Exocrine atrophy, focal	0			1	0			0
Kidneys								
number examined	6	5	5	5	5	5	5	5
Pelvic dilation	1	0	0	0	0	0	0	0
Hyaline cast(s)	2	0	0	1	0	2	0	1
Inflammation, lymphoid	0	1	1	0	1	2	0	0
Tubular basophilia, outer stripe medulla, diffuse	0	1	0	0	0	0	0	0
Tubular basophilia, corticomedullary	2	0	1	2	1	3	0	3
Urinary Bladder								
number examined	5			5	5			5
<u>Testes</u>								
number examined	6	3		8				
Epididymides								
number examined	6	3		8				

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Table 4	Incidence	All Microscopic	Eindinge
rable 4	incidence	All MICTOSCODIC	Finainas

SEX: DOSE GROUP:	MZ .	LE 2	3	4	FE 1	MALE 2	3	4	
number of animals	10	10	10	10	10	10	10	10	
Prostate Gland									
number examined	6	3		8					
Inflammation, lymphoid	1	0		0					
Seminal Vesicles									
number examined	6	3	1	8					
Acinar atrophy, diffuse	0	0	0	1					
Coagulating Glands									
number examined	6	3	1	8					
Acinar atrophy, diffuse	0	0	0	1					
Preputial Glands									
number examined	5			5					
Cystic duct, inspissated contents	2			0					
Ovaries									
number examined					6	3		9	
Uterus									
number examined					6	3		9	
Implantation site(s)					5	1		6	
<pre>Inflammation, granulocytic/ lymphocytic</pre>					0	1		1	
Estrus epithelium					1	0		0	
Deciduoma					0	1		0	
Uterus - cervix									
number examined					6	2		9	
Vagina									
number examined					6	2		9	

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Table 4	incidence i	Αij	Microscopic	Findings
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SEX: DOSE GROUP:	M7 1	ALE 2	3	4	FE 1	MALE 2	3	4	
number of animals	10	10	10	10	10	10	10	10	
<u>Vagina</u>									
Epithelial mucification					3	2		7	
Clitoral Glands									
number examined					5			5	
Cystic duct, inspissated contents					5			5	
Pituitary Gland									
number examined	5			5	5			5	
Cyst(s)	0			1	1			0	
Thyroid Glands									
number examined	5			5	5			5	
Follicular hypertrophy/ hyperplasia, diffuse	2			0	0			0	
Parathyroid Glands									
number examined	5			5	5			5	
Adrenal Glands									
number examined	5	5	5	5	5	1		5	
Extracapsular nodule	0	0	0	1	0	0		1	
Vacuolation, multifocal in z. fasiculata	2	2	1	4	0	0		0	
Hypertrophy, cortical diffuse	0	0	0	0	0	1		0	
Spleen									
number examined	5			5	5			5	
Hemopoietic foci, primarily erythroid	5			5	5			5	
Hemosiderin pigment	0			1	2			2	

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Test item : Dytek® DCH-99
Test System : Combined Repro/Tox Screening Test by Gavage in Rats
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Table 4 **Incidence All Microscopic Findings**

SEX: DOSE GROUP:	MA 1	E 2	3	4	FEN 1	FALE 2	3	4	
number of animals	10	10	10	10	10	10	10	10	
Bone Marrow - sternal									
number examined	5			5	5			5	
Thymus									
number examined	5	5	5	5	5	5	5	5	
Lymphoid atrophy - involution	1	0	1	2	4	0	1	3	
Mesenteric Lymph Node									
number examined	5			5	5			5	
Pigment, yellow-brown	0			0	2			3	
Mandibular Lymph Nodes									
number examined	5			5	4			5	
Congestion/ erythrophagocytosis	0			0	2			1	
Plasmacytosis	1			1	1			0	
Lymphoid hyperplasia	2			1	1			0	
Skin									
number examined						1			
Telogen (resting) phase follicles						1			
Bone - sternum									
number examined	5			5	5			5	
Bone - other sites									
number examined	1	1							
Osseous metaplasia, focal	1	1							

Test item : Dytek® DCH-99
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Table 5 **Individual Animal Microscopic Findings**

Codes and symbols in table heading:

Males m

f **Females**

Codes and symbols in animal lines:

Planned sacrifice р

Suspected infertile i

Grading system used in finding lines:

- 0 finding not present
- minimal 1
- 2 slight
- 3 moderate
- 4 severe
- 5 very severe
- present X

Only organs/groups with findings are listed in the table

Test item : Dytek® DCH-99
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		 .								
Table 5 Individual Animal Mi	crosco	pic Fin	aings							
Males Group 1	1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m
necropsy status	р	p	р	р	p	p	p	р	р	i
Sciatic Nerve										
Myelin fragmentation	1	0		0		0	1			
Lungs										
Alveolar inflammation, lymphocytic	0	2		0		0	0			
Peri- vascular/bronchial, inflammatory cell foci	0	1		0		1	0			
Lymphoid hyperplasia (BALT)	1	1		0		0	0			
Esophagus										
Myodegeneration, focal	0	0		1		0	2			
Liver										
Inflammation, granulocytic/mononuclear	2	1		1		1	1			
Kidneys										
Pelvic dilation	0	0		0	x	0	0			
Hyaline cast(s)	1	0		0	1	0	0			
Tubular basophilia, corticomedullary	1	0		1	0	0	0			
Prostate Gland										
Inflammation, lymphoid	0	0		0		1	0			0
Preputial Glands										
Cystic duct, inspissated contents	2	0		0		0	1			
Thyroid Glands										
Follicular hypertrophy/ hyperplasia, diffuse	0	1		0		2	0			

PATHOI	OGY REP	ORT	(DRAFT)
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Osseous metaplasia, focal

Test item : Dytek® DCH-99
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Table 5 Individual Animal Microscopic Findings											
Males Group 1											
	1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m	
necropsy status	р	р	p	p	р	р	p	p	р	i	
Adrenal Glands											
Vacuolation, multifocal in z. fasiculata	1	1		0		0	0				
Spleen											
Hemopoietic foci, primarily erythroid	2	2		1		2	2				
Thymus											
Lymphoid atrophy - involution	0	1		0		0	0				
Mandibular Lymph Nodes											
Plasmacytosis	2	0		0		0	0				
Lymphoid hyperplasia	2	2		0		0	0				
Bone - other sites											

2

PATHOLOGY	REPORT	(DRAFT)
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Test item : Dytek® DCH-99
Test System : Combined Repro/Tox Screening Test by Gavage in Rats
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Bone - other sites

Osseous metaplasia, focal

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Table 5	Individual Animal Microscopic Findings										
Males Group 2											
_		11 m	12 m	13 m	14 m	15 m	16 m	17 m	18 m	19 m	20 m
necropsy	status	i	р	р	р	i	р	p	p	р	i
Lungs											
Lymphoid (BALT)	hyperplasia		0	0	1		0	0			
Osseous r	netaplasia		1	0	0		0	0			
Liver											
Inflammat granuloo	cion, cytic/mononuclear		2	2	2		2	1			
Kidneys											
Inflammat	cion, lymphoid		0	0	0		0	2			
	oasophilia, outer nedulla, diffuse		0	0	0		0	3			
Adrenal Gl	lands										
Vacuolati z. fasio	ion, multifocal in culata		1	0	1		0	0			

2

Test item : Dytek® DCH-99
Test System : Combined Repro/Tox Screening Test by Gavage in Rats
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Table 5 Individual Animal M	icrosc	opic Fi	ndings							
Males Group 3										
	21 m	22 m	23 m	24 m	25 m	26 m	27 m	28 m	29 m	30 m
necropsy status	р	р	р	р	p	р	р	р	р	р
Lungs										
Alveolar macrophage foci	1	0	0	0	0					
Alveolar inflammation, lymphocytic	0	0	0	0	1					
Osseous metaplasia	0	2	0	0	0					
Liver										
Inflammation, granulocytic/mononuclear	1	1	2	1	1					
Hematopoietic cell foci	0	1	0	0	0					
Kidneys										
Inflammation, lymphoid	0	0	0	0	1					
Tubular basophilia, corticomedullary	0	0	0	0	1					
Adrenal Glands										
Vacuolation, multifocal in z. fasiculata	2	0	0	0	0					
Thymus										
Lymphoid atrophy - involution	0	0	2	0	0					

Test item : Dytek® DCH-99
Test System : Combined Repro/Tox Screening Test by Gavage in Rats
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Sponsor

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Table 5 Individual Animal Mi	crosco	pic Fir	idings								
Males Group 4	2.1	20	22	2.4	2.5	26	27	20	2.0	4.0	
	31 m	32 m	33 m	34 m	35 m	36 m	37 m	38 m	39 m	40 m	
necropsy status	р	р	i	p	i	р	i	p	i	р	
Sciatic Nerve											
Myelin fragmentation	0	0		1	1	1					
Lungs											
Alveolar macrophage foci	0	0		0	0	2					
Alveolar inflammation, lymphocytic	1	1		0	1	1					
Peri- vascular/bronchial, inflammatory cell foci	0	0		0	1	0					
Liver											
Inflammation, granulocytic/mononuclear	1	1	2	1	1	1				0	
Hepatocellular vacuolation	2	0	1	0	1	1				0	
Pancreas											
Exocrine atrophy, focal	0	0		0	1	0					
Kidneys											
Hyaline cast(s)	0	0		1	0	0					
Tubular basophilia, corticomedullary	0	1		1	0	0					
Seminal Vesicles											
Acinar atrophy, diffuse	0	0	0	0	0	0	0		2		
Coagulating Glands											
Acinar atrophy, diffuse	0	0	0	0	0	0	0		2		
Pituitary Gland											
Cyst(s)	0	0		0	x	0					

Lymphoid hyperplasia

Test item : Dytek® DCH-99
Test System : Combined Repro/Tox Screening Test by Gavage in Rats
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Table 5 Individual Animal Microscopic Findings											
Males Group 4											
		31 m	32 m	33 m	34 m	35 m	36 m	37 m	38 m	39 m	40 m
necropsy	status	p	р	i	p	i	р	i	Р	i	р
Adrenal G	lands										
Extracapa	sular nodule	0	0		x	0	0				
Vacuolat: z. fasio	ion, multifocal in culata	2	2		1	0	2				
Spleen											
Hemopoiet primari	tic foci, ly erythroid	2	3		2	2	2				
Hemoside	rin pigment	0	1		0	0	0				
Thymus											
Lymphoid involuti	atrophy - ion	2	0		0	2	0				
Mandibula	r Lymph Nodes										
Plasmacyt	tosis	0	3		0	0	0				

0

0

Test item : Dytek® DCH-99
Test System : Combined Repro/Tox Screening Test by Gavage in Rats
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Table 5 Individual Animal Microscopic Findings										
Females Group 1										
GLOUP I	41 f	42 f	43 f	44 f	4 5 f	46 f	47 f	48 £	49 £	50 £
necropsy status	p	р	p	р	р	р	р	р	р	i
Spinal Cord - lumbar										
Axonal swelling, focal		1		0	0		1	0		
Lungs										
Alveolar macrophage foci		2		0	0		0	0		
Alveolar inflammation, lymphocytic		1		0	0		0	0		
Esophagus										
Myodegeneration, focal		2		0	2		0	0		
Stomach										
Dilated gastric pits		0		0	0		1	0		
Liver										
Inflammation, granulocytic/mononuclear		1		0	1		2	1		
Hematopoietic cell foci		2		0	0		0	0		
Kidneys										
Inflammation, lymphoid		0		0	0		0	1		
Tubular basophilia, corticomedullary		0		0	0		1	0		
Uterus										
Implantation site(s)		x		x	x		x	x		0
Estrus epithelium		0		0	0		0	0		x
Vagina										
Epithelial mucification		1		1	2		0	0		0

Test item : Dytek® DCH-99
Test System : Combined Repro/Tox Screening Test by Gavage in Rats
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Table 5 Individual Animal Microscopic Findings											
Females Group 1											
•	41 f	42 £	43 f	44 £	45 £	46 f	47 f	48 £	49 f	50 f	
necropsy status	р	р	р	р	p	р	р	р	p	i	
Clitoral Glands											
Cystic duct, inspissated contents		1		2	3		1	3			
Pituitary Gland											
Cyst(s)		0		0	0		x	0			
Spleen											
Hemopoietic foci, primarily erythroid		3		2	2		2	2			
Hemosiderin pigment		1		1	0		0	0			
Thymus											
Lymphoid atrophy - involution		3		1	2		0	2			
Mesenteric Lymph Node											
Pigment, yellow-brown		1		0	1		0	0			
Mandibular Lymph Nodes											
Congestion/ erythrophagocytosis		3		0	0		2	-			
Plasmacytosis		0		0	0		2	-			
Lymphoid hyperplasia		0		0	0		2	~			

follicles

Test item : Dytek® DCH-99
Test System : Combined Repro/Tox Screening Test by Gavage in Rats
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Table 5 Individual Animal Microscopic Findings											
Females Group 2	51	EΔ	53	EΛ	E E	56	E 77	F.O.	E 0	60	
	f	52 £	f	54 £	55 £	f	57 £	58 £	59 f	60 f	
necropsy status	i	p	p	р	i	р	р	р	р	i	
Lungs											
Alveolar inflammation, lymphocytic		0	0	0				0	1		
Osseous metaplasia		0	1	0				0	0		
Liver											
Inflammation, granulocytic/mononuclear		1	1	1				1	0		
Kidneys											
Hyaline cast(s)		1	0	0				0	2		
Inflammation, lymphoid		0	1	0				1	0		
Tubular basophilia, corticomedullary		1	0	0				1	2		
Uterus											
Implantation site(s)	0				0					х	
<pre>Inflammation, granulocytic/lymphocytic</pre>	0				0					2	
Deciduoma	0				x					0	
Vagina											
Epithelial mucification	-				4					4	
Adrenal Glands											
Hypertrophy, cortical diffuse			2								
Skin											
Telogen (resting) phase									x		

PATHOL	.OGY	REPORT	(DRAFT)
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Table 5	Individual Animal Mi	crosco	pic Fin	dings							
Females Group 3											
-		61 f	62 f	63 f	64 f	65 f	66 f	67 f	68 f	69 £	70 £
necropsy	status	p	р	р	p	р	р	р	р	p	р
Lungs											
Alveolar lymphoc	inflammation, ytic		1	0	0		0				0
Liver											
Hepatodi	aphragmatic nodule		0	0	0		x				0
Inflamma granulo	tion, cytic/mononuclear		0	0	1		1				0
Hematopo	ietic cell foci		0	1	0		0				0
Thymus											
Lymphoid	atrophy -		0	0	0		0				1

PATHO	LOGY	REPORT	(DRAFT)

Test item : Dytek® DCH-99
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Table 5 Individual Animal M	icrosc	opic Fi	ndings							
Females Group 4	71 f	72 f	73 f	74 £	75 £	76 f	77 £	78 £	79 £	80 f
necropsy status	p	p	i	р	i	p	i	p	i	р
Heart										
Inflammation, lymphoid	0	1		0				0		0
Myofiber necrosis	0	0		0				0		1
Lungs										
Alveolar macrophage foci	2	2		3				3		2
Alveolar inflammation, lymphocytic	1	3		2				3		2
Stomach										
Dilated gastric pits	0	0		2				0		1
Liver										
Inflammation, granulocytic/mononuclear	0	1		0				1		1
Hepatocellular vacuolation	0	0		2				1		1
Hematopoietic cell foci	0	0		1				0		0
Kidneys										
Hyaline cast(s)	0	1		0				0		0
Tubular basophilia, corticomedullary	1	1		0				0		1
Uterus										
Implantation site(s)	x	x	0	x	0		0	x	×	x
Inflammation, granulocytic/lymphocytic	0	0	0	0	1		0	0	0	0
Vagina										
Epithelial mucification	0	0	2	2	1		3	3	3	1

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Table 5	Individual	Animal	Microscopio	Findings
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Females

Group 4											
Group 4	71 £	72 f	73 £	74 £	75 £	76 £	77 £	78 £	79 £	80 f	
necropsy status	р	p	i	р	i	р	i	р	i	р	
Clitoral Glands											
Cystic duct, inspissated contents	2	3		3				1		3	
Adrenal Glands											
Extracapsular nodule	x	0		0				0		0	
Spleen											
Hemopoietic foci, primarily erythroid	1	1		2				2		2	
Hemosiderin pigment	0	1		0				1		0	
Thymus											
Lymphoid atrophy - involution	2	3		2				0		0	
Mesenteric Lymph Node											
Pigment, yellow-brown	0	1		0				1		1	
Mandibular Lymph Nodes											
Congestion/ erythrophagocytosis	3	0		0				0		0	

Test item : Dytek® DCH-99
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Table 6 **Animal Data List**

Males						
ANIMAL	SEX I	FINAL	TEST	FIRST	LAST	DATE
NUMBER	M/F S	STATE	DAYS	DAY	DAY	NECROPSY
DOSE GROUP 1						
DOSE GROUP 1	m	р	31	08/01/07	07/02/07	08/02/07
2	m	p	31	08/01/07	07/02/07	08/02/07
3	m	p	31	08/01/07	07/02/07	08/02/07
4	m	p	31	08/01/07	07/02/07	08/02/07
5	m	p	31	08/01/07	07/02/07	08/02/07
6	m	p	31	08/01/07	07/02/07	08/02/07
7	m	p	31	08/01/07	07/02/07	08/02/07
8	m	p	31	08/01/07	07/02/07	08/02/07
9	m	p	31	08/01/07	07/02/07	08/02/07
10	m	i	31	08/01/07	07/02/07	08/02/07
DOSE GROUP 2					/ /	00/00/00
11	m	i	31	08/01/07	07/02/07	08/02/07
12	m	р	31	08/01/07	07/02/07	08/02/07
13	m	р	31	08/01/07	07/02/07	08/02/07
14	m	þ	31 31	08/01/07 08/01/07	07/02/07 07/02/07	08/02/07 08/02/07
15 16	m m	i	31	08/01/07	07/02/07	08/02/07
17	m	p p	31	08/01/07	07/02/07	08/02/07
18	m	p	31	08/01/07	07/02/07	08/02/07
19	m	p	31	08/01/07	07/02/07	08/02/07
20	m	i	31	08/01/07	07/02/07	08/02/07
DOSE GROUP 3						
21	m	р	31	08/01/07	07/02/07	08/02/07
22	m	p	31	08/01/07	07/02/07	08/02/07
23	m	p	31	08/01/07	07/02/07	08/02/07
24	m	p	31	08/01/07	07/02/07	08/02/07
25	m	p	31	08/01/07	07/02/07	08/02/07
26	m	р	31	08/01/07	07/02/07	08/02/07
27	m	p	31	08/01/07	07/02/07	08/02/07
28	m	р	31	08/01/07	07/02/07	08/02/07
29	m	p	31	08/01/07 08/01/07	07/02/07 07/02/07	08/02/07 08/02/07
30 DOSE GROUP 4	m	р	31	00/01/0/	07702707	08/02/07
31	m	n	31	08/01/07	07/02/07	08/02/07
32	m	p p	31	08/01/07	07/02/07	08/02/07
33	m	i	31	08/01/07	07/02/07	08/02/07
34	m	p	31	08/01/07	07/02/07	08/02/07
35	m	i	31	08/01/07	07/02/07	08/02/07
36	m	p	31	08/01/07	07/02/07	08/02/07
37	m	i	31	08/01/07	07/02/07	08/02/07
38	m	р	31	08/01/07	07/02/07	08/02/07
39	m	i	31	08/01/07	07/02/07	08/02/07
40	m	p	31	08/01/07	07/02/07	08/02/07

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Table 6 **Animal Data List**

<i>Females</i>					
ANIMAL	SEX FINAL	TEST	FIRST	LAST	DATE
NUMBER	M/F STATE	DAYS	DAY	DAY	NECROPSY
DOSE GROUP 1					
41	f p	45	08/01/07	21/02/07	22/02/07
42	f p	44	08/01/07	20/02/07	21/02/07
43	f p	42	08/01/07	18/02/07	19/02/07
44	f p	43	08/01/07	19/02/07	20/02/07
45	f p	43	08/01/07	19/02/07	20/02/07
46	f p	42	08/01/07	18/02/07	19/02/07
47	f p	43	08/01/07	19/02/07	20/02/07
48	f p	43	08/01/07	19/02/07	20/02/07
49	f p	44	08/01/07	20/02/07	21/02/07
50	f i	45	08/01/07	21/02/07	21/02/07
DOSE GROUP 2	. .	4 =	00/01/07	01 /00 /07	01 /00 /07
51	fi	45	08/01/07	21/02/07	21/02/07
52	f p	45	08/01/07	21/02/07 18/02/07	22/02/07 19/02/07
53	f p	42	08/01/07		
54 55	f p f i	43 45	08/01/07	19/02/07 21/02/07	20/02/07 21/02/07
55 56		45 45	08/01/07 08/01/07	21/02/07	22/02/07
	_ *			21/02/07	22/02/07
57 58	f p f p	45	08/01/07 08/01/07	18/02/07	19/02/07
	-	42	08/01/07	19/02/07	20/02/07
59 60	f p f i	43 39	08/01/07	15/02/07	15/02/07
DOSE GROUP 3	т т	39	08/01/07	13/02/07	13/02/07
DOSE GROUP 3	f p	45	08/01/07	21/02/07	22/02/07
62	- *	42	08/01/07	18/02/07	19/02/07
63	_ *	44	08/01/07	20/02/07	21/02/07
64	<u>-</u>	42	08/01/07	18/02/07	19/02/07
65	_ *	42	08/01/07	18/02/07	19/02/07
66	f p f p	44	08/01/07	20/02/07	21/02/07
67	f p	44	08/01/07	20/02/07	21/02/07
68	f p	44	08/01/07	20/02/07	21/02/07
69	f p	42	08/01/07	18/02/07	19/02/07
70	f p	43	08/01/07	19/02/07	20/02/07
DOSE GROUP 4	т р	45	00/01/07	13/02/07	20,02,01
71	f p	44	08/01/07	20/02/07	21/02/07
72	f p	43	08/01/07	19/02/07	20/02/07
73	f i	45	08/01/07	21/02/07	21/02/07
74	fp	44	08/01/07	20/02/07	21/02/07
75	fi	45	08/01/07	21/02/07	21/02/07
76	fp	44	08/01/07	20/02/07	21/02/07
77	f i	45	08/01/07	21/02/07	21/02/07
78	f p	43	08/01/07	19/02/07	20/02/07
79	fi	41	08/01/07	17/02/07	17/02/07
80	f p	43	08/01/07	19/02/07	20/02/07
	*				

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Table 7 Individual Animal Data Records

Animal No:

1

SEX:

Male

DOSE GROUP:

Group 1, 0 mg/kg/day Control

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 07/02/07

date of necropsy : 08/02/07

No findings noted

MICROSCOPIC FINDINGS

Adrenal Gland/1 Vacuolation, multifocal in z. fasiculata (minimal)

Adrenal Gland/2 Vacuolation, multifocal in z. fasiculata (minimal)

Kidney/1 Hyaline cast(s) (minimal)

Tubular basophilia, corticomedullary (minimal)

Kidney/2 Tubular basophilia, corticomedullary (minimal)

Liver Inflammation, granulocytic/mononuclear (slight)

Lungs Lymphoid hyperplasia (BALT) (minimal)

Mandibular Lymph

Node/1

Plasmacytosis (slight)

Mandibular Lymph

Node/2

Lymphoid hyperplasia (slight)

Preputial Gland/1

Cystic duct, inspissated contents (slight)

Sciatic Nerve

Myelin fragmentation (minimal)

Spleen

Hemopoietic foci, primarily erythroid (slight)

Test item : Dytek® DCH-99 NOTOX no. : 479003
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Sponsor : Invista S.a.r.l. Date : 23.May.2007

Table 7 Individual Animal Data Records

Animal No: 1 SEX: Male

DOSE GROUP: Group 1, 0 mg/kg/day Control

MICROSCOPIC FINDINGS

(continued)

No abnormalities found in: Aorta, Bone - sternum, Bone Marrow - sternal, Brain, Cecum, Coagulating Gland/1, Coagulating Gland/2, Colon, Duodenum, Epididymis/1, Epididymis/2, Esophagus, Heart, Ileum, Jejunum, Mesenteric Lymph Node, Pancreas, Parathyroid Gland/1, Parathyroid Gland/2, Peyer's Patches (GALT), Pituitary Gland, Preputial Gland/2, Prostate Gland, Rectum, Seminal Vesicle/1, Seminal Vesicle/2, Spinal Cord - cervical, Spinal Cord - midthoracic, Spinal Cord - lumbar, Stomach, Testes/1, Testes/2, Thymus, Thyroid Gland/1, Thyroid Gland/2, Trachea, Urinary Bladder.

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Animal No: 2

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal
necropsy status : planned terminal
date of start of treatment: 08/01/07
date of end of treatment: 07/02/07
date of necropsy : 08/02/07

No findings noted

MICROSCOPIC FINDINGS

Adrenal Gland/1 Vacuolation, multifocal in z. fasiculata (minimal)

Adrenal Gland/2 Vacuolation, multifocal in z. fasiculata (minimal)

Liver Inflammation, granulocytic/mononuclear (minimal)

Lungs Alveolar inflammation, lymphocytic (slight)

Peri- vascular/bronchial, inflammatory cell foci

(minimal)

Lymphoid hyperplasia (BALT) (minimal)

Mandibular Lymph

Node/1

Lymphoid hyperplasia (slight)

Test item : Dytek® DCH-99

Test System : Combined Repro/Tox Screening Test by Gavage in Rats

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Table 7 Individual Animal Data Records

Animal No:

2

SEX:

Male

DOSE GROUP:

Group 1, 0 mg/kg/day Control

MICROSCOPIC FINDINGS

(continued)

Mandibular Lymph

Node/2

Lymphoid hyperplasia (slight)

Spleen

Hemopoietic foci, primarily erythroid (slight)

Thymus

Lymphoid atrophy - involution (minimal)

Thyroid Gland/1

Follicular hypertrophy/hyperplasia, diffuse

(minimal)

Thyroid Gland/2

Follicular hypertrophy/hyperplasia, diffuse

(minimal)

No abnormalities found in: Aorta, Bone - sternum, Bone Marrow - sternal, Brain, Cecum, Coagulating Gland/1, Coagulating Gland/2, Colon, Duodenum, Epididymis/1, Epididymis/2, Esophagus, Heart, Ileum, Jejunum, Kidney/1, Kidney/2, Mesenteric Lymph Node, Pancreas, Parathyroid Gland/1, Parathyroid Gland/2, Peyer's Patches (GALT), Pituitary Gland, Preputial Gland/1, Preputial Gland/2, Prostate Gland, Rectum, Sciatic Nerve, Seminal Vesicle/1, Seminal Vesicle/2, Spinal Cord - cervical, Spinal Cord - midthoracic, Spinal Cord - lumbar, Stomach, Testes/1, Testes/2, Trachea, Urinary Bladder.

Animal No:

3

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 07/02/07 date of necropsy : 08/02/07

No findings noted

: Dytek® DCH-99 Test item

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Table 7 **Individual Animal Data Records**

SEX:

Male

DOSE GROUP:

Group 1, 0 mg/kg/day Control

MICROSCOPIC FINDINGS

No tissues taken

Animal No:

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 07/02/07 date of necropsy : 08/02/07

No findings noted

MICROSCOPIC FINDINGS

Esophagus

Myodegeneration, focal (minimal)

Kidney/1

Tubular basophilia, corticomedullary (minimal)

Liver

Inflammation, granulocytic/mononuclear (minimal)

Spleen

Hemopoietic foci, primarily erythroid (minimal)

No abnormalities found in: Adrenal Gland/1, Adrenal Gland/2, Aorta, Bone - sternum, Bone Marrow - sternal, Brain, Cecum, Coagulating Gland/1, Coagulating Gland/2, Colon, Duodenum, Epididymis/ 1, Epididymis/2, Heart, Ileum, Jejunum, Kidney/2, Lungs, Mandibular Lymph Node/1, Mandibular Lymph Node/2, Mesenteric Lymph Node, Pancreas, Parathyroid Gland/1, Parathyroid Gland/2, Peyer's Patches (GALT), Pituitary Gland, Preputial Gland/ 1, Preputial Gland/2, Prostate Gland, Rectum, Sciatic Nerve, Seminal Vesicle/1, Seminal Vesicle/ 2, Spinal Cord - cervical, Spinal Cord midthoracic, Spinal Cord - lumbar, Stomach, Testes/1, Testes/2, Thymus, Thyroid Gland/1, Thyroid Gland/2, Trachea, Urinary Bladder.

: Dytek® DCH-99 Test item

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Table 7 **Individual Animal Data Records**

Animal No:

5

SEX:

Male

DOSE GROUP:

Group 1, 0 mg/kg/day Control

MACROSCOPIC FINDINGS

days of treatment

: 31 sacrifice group

: planned terminal

necropsy status : planned terminal date of start of treatment: 08/01/07

date of end of treatment: 07/02/07 date of necropsy

: 08/02/07

Kidneys

right side Pelvic dilation

No abnormalities were found in any of the other

tissues examined

MICROSCOPIC FINDINGS

Kidney/1

Pelvic dilation present (correlates to GROSS

finding)

Hyaline cast(s) (minimal)

Animal No:

MACROSCOPIC FINDINGS

days of treatment : 31

: planned terminal sacrifice group necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 07/02/07

date of necropsy : 08/02/07

Bone tail apex Bent

No abnormalities were found in any of the other

tissues examined

MICROSCOPIC FINDINGS

Bone - other sites

Osseous metaplasia, focal (slight) (correlates to

GROSS finding)

Liver

Inflammation, granulocytic/mononuclear (minimal)

Lungs

Peri- vascular/bronchial, inflammatory cell foci

(minimal)

Test item : Dytek® DCH-99

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Table 7 Individual Animal Data Records

Animal No:

6

SEX:

Male

DOSE GROUP:

Group 1, 0 mg/kg/day Control

MICROSCOPIC FINDINGS

(continued)

Prostate Gland

Inflammation, lymphoid (minimal)

Spleen

Hemopoietic foci, primarily erythroid (slight)

Thyroid Gland/1

Follicular hypertrophy/hyperplasia, diffuse

(slight)

Thyroid Gland/2

Follicular hypertrophy/hyperplasia, diffuse

(slight)

Number of Sections less than protocol for

Parathyroid Gland/1 (0).

No abnormalities found in: Adrenal Gland/1, Adrenal Gland/2, Aorta, Bone - sternum, Bone Marrow - sternal, Brain, Cecum, Coagulating Gland/1, Coagulating Gland/2, Colon, Duodenum, Epididymis/1, Epididymis/2, Esophagus, Heart, Ileum, Jejunum, Kidney/1, Kidney/2, Mandibular Lymph Node/1, Mandibular Lymph Node/2, Mesenteric Lymph Node, Pancreas, Parathyroid Gland/2, Peyer's Patches (GALT), Pituitary Gland, Preputial Gland/1, Preputial Gland/2, Rectum, Sciatic Nerve, Seminal Vesicle/1, Seminal Vesicle/2, Spinal Cord - cervical, Spinal Cord - midthoracic, Spinal Cord - lumbar, Stomach, Testes/1, Testes/2, Thymus, Trachea, Urinary Bladder.

Animal No:

7

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal
necropsy status : planned terminal
date of start of treatment: 08/01/07
date of end of treatment: 07/02/07
date of necropsy : 08/02/07

No findings noted

Test item : Dytek® DCH-99

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Table 7 Individual Animal Data Records

Animal No:

7

SEX:

Male

DOSE GROUP:

Group 1, 0 mg/kg/day Control

MICROSCOPIC FINDINGS

Esophagus

Myodegeneration, focal (slight)

Liver

Inflammation, granulocytic/mononuclear (minimal)

Preputial Gland/1

Cystic duct, inspissated contents (minimal)

Sciatic Nerve

Myelin fragmentation (minimal)

Spleen

Hemopoietic foci, primarily erythroid (slight)

Number of Sections less than protocol for

Coagulating Gland/1 (0).

No abnormalities found in: Adrenal Gland/1, Adrenal Gland/2, Aorta, Bone - sternum, Bone Marrow - sternal, Brain, Cecum, Coagulating Gland/2, Colon, Duodenum, Epididymis/1, Epididymis/2, Heart, Ileum, Jejunum, Kidney/1, Kidney/2, Lungs, Mandibular Lymph Node/1, Mandibular Lymph Node/2, Mesenteric Lymph Node, Pancreas, Parathyroid Gland/1, Parathyroid Gland/2, Peyer's Patches (GALT), Pituitary Gland, Preputial Gland/2, Prostate Gland, Rectum, Seminal Vesicle/1, Seminal Vesicle/2, Spinal Cord - cervical, Spinal Cord - midthoracic, Spinal Cord - lumbar, Stomach, Testes/1, Testes/2, Thymus, Thyroid Gland/1, Thyroid Gland/2, Trachea, Urinary Bladder.

Animal No:

0

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 07/02/07 date of necropsy : 08/02/07

No findings noted

Test item : Dytek® DCH-99

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Table 7 Individual Animal Data Records

Animal No:

8

: Invista S.a.r.l.

SEX:

Sponsor

Male

DOSE GROUP:

Group 1, 0 mg/kg/day Control

MICROSCOPIC FINDINGS

No tissues taken

Animal No:

۵

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 07/02/07

date of necropsy : 08/02/07

No findings noted

MICROSCOPIC FINDINGS

No tissues taken

Animal No:

10

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal necropsy status : suspected infertile date of start of treatment: 08/01/07 date of end of treatment: 07/02/07

date of end of freatment: 07/02 date of necropsy : 08/02/07

No findings noted

MICROSCOPIC FINDINGS

No abnormality detected

No abnormalities found in: Coagulating Gland/1, Coagulating Gland/2, Epididymis/1, Epididymis/2, Prostate Gland, Seminal Vesicle/1, Seminal

Vesicle/2, Testes/1, Testes/2.

Test item : Dytek® DCH-99

Test System : Combined Repro/Tox Screening Test by Gavage in Rats

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Table 7 Individual Animal Data Records

Animal No:

41

SEX:

Female

DOSE GROUP:

Group 1, 0 mg/kg/day Control

MACROSCOPIC FINDINGS

days of treatment : 45

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 21/02/07 date of necropsy : 22/02/07

No findings noted

MICROSCOPIC FINDINGS

No tissues taken

Animal No:

42

MACROSCOPIC FINDINGS

days of treatment : 44

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 20/02/07 date of necropsy : 21/02/07

Mandibular lymph

nodes

right side Discolouration DARK RED

No abnormalities were found in any of the other tissues examined

MICROSCOPIC FINDINGS

Clitoral Gland/1

Cystic duct, inspissated contents (minimal)

Esophagus

Myodegeneration, focal (slight)

Liver

Inflammation, granulocytic/mononuclear (minimal)

Hematopoietic cell foci (slight)

Lungs

Alveolar macrophage foci (slight)

Alveolar inflammation, lymphocytic (minimal)

: Dytek® DCH-99 Test item

Test System : Combined Repro/Tox Screening Test by Gavage in Rats

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Individual Animal Data Records Table 7

Animal No:

42

SEX:

Female

DOSE GROUP:

Group 1, 0 mg/kg/day Control

MICROSCOPIC FINDINGS

(continued)

Mandibular Lymph

Congestion/erythrophagocytosis (moderate)

Node/1

(correlates to GROSS finding)

Mesenteric Lymph Node Pigment, yellow-brown (minimal)

Spinal Cord - lumbar

Axonal swelling, focal (minimal)

Spleen

Hemopoietic foci, primarily erythroid (moderate)

Hemosiderin pigment (minimal)

Thymus

Lymphoid atrophy - involution (moderate)

Uterus

Implantation site(s) present

Vagina

Epithelial mucification (minimal)

No abnormalities found in: Adrenal Gland/1, Adrenal Gland/2, Aorta, Bone - sternum, Bone Marrow sternal, Brain, Cecum, Clitoral Gland/2, Colon, Duodenum, Heart, Ileum, Jejunum, Kidney/1, Kidney/ 2, Mandibular Lymph Node/2, Ovary/1, Ovary/2, Pancreas, Parathyroid Gland/1, Parathyroid Gland/ 2, Peyer's Patches (GALT), Pituitary Gland, Rectum, Sciatic Nerve, Spinal Cord - cervical, Spinal Cord - midthoracic, Stomach, Thyroid Gland/ 1, Thyroid Gland/2, Trachea, Urinary Bladder,

Animal No: 43

MACROSCOPIC FINDINGS

days of treatment : 42

Uterus - cervix.

: planned terminal sacrifice group : planned terminal necropsy status date of start of treatment: 08/01/07 date of end of treatment: 18/02/07 date of necropsy : 19/02/07

No findings noted

Test item : Dytek® DCH-99
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Table 7 Individual Animal Data Records

Animal No:

43

SEX:

Female

DOSE GROUP:

Group 1, 0 mg/kg/day Control

MICROSCOPIC FINDINGS

No tissues taken

Animal No:

44

MACROSCOPIC FINDINGS

days of treatment : 43

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 19/02/07 date of necropsy : 20/02/07

No findings noted

MICROSCOPIC FINDINGS

Clitoral Gland/1

Cystic duct, inspissated contents (slight)

Spleen

Hemopoietic foci, primarily erythroid (slight)

Hemosiderin pigment (minimal)

Thymus

Lymphoid atrophy - involution (minimal)

Uterus

Implantation site(s) present

Vagina

Epithelial mucification (minimal)

No abnormalities found in: Adrenal Gland/1, Adrenal Gland/2, Aorta, Bone - sternum, Bone Marrow - sternal, Brain, Cecum, Clitoral Gland/2, Colon, Duodenum, Esophagus, Heart, Ileum, Jejunum, Kidney/1, Kidney/2, Liver, Lungs, Mandibular Lymph Node/1, Mandibular Lymph Node/2, Mesenteric Lymph Node, Ovary/1, Ovary/2, Pancreas, Parathyroid Gland/1, Parathyroid Gland/2, Peyer's Patches (GALT), Pituitary Gland, Rectum, Sciatic Nerve, Spinal Cord - cervical, Spinal Cord - midthoracic, Spinal Cord - lumbar, Stomach, Thyroid Gland/1, Thyroid Gland/2, Trachea, Urinary Bladder, Uterus

- cervix.

: Dytek® DCH-99 Test item

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Table 7 **Individual Animal Data Records**

Animal No:

45

SEX:

Female

DOSE GROUP:

Group 1, 0 mg/kg/day Control

MACROSCOPIC FINDINGS

days of treatment : 43

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 19/02/07 : 20/02/07 date of necropsy

No findings noted

MICROSCOPIC FINDINGS

Clitoral Gland/1

Cystic duct, inspissated contents (moderate)

Clitoral Gland/2

Cystic duct, inspissated contents (moderate)

Esophagus

Myodegeneration, focal (slight)

Liver

Inflammation, granulocytic/mononuclear (minimal)

Mesenteric Lymph Node Pigment, yellow-brown (minimal)

Spleen

Hemopoietic foci, primarily erythroid (slight)

Thymus

Lymphoid atrophy - involution (slight)

Uterus

Implantation site(s) present

Vagina

Epithelial mucification (slight)

Number of Sections less than protocol for

Mandibular Lymph Node/1 (0), Parathyroid Gland/1

: Dytek® DCH-99

Test System : Combined Repro/Tox Screening Test by Gavage in Rats

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Table 7 **Individual Animal Data Records**

Animal No:

Sponsor

45

SEX:

Female

DOSE GROUP:

Group 1, 0 mg/kg/day Control

MICROSCOPIC FINDINGS

(continued)

No abnormalities found in: Adrenal Gland/1, Adrenal Gland/2, Aorta, Bone - sternum, Bone Marrow sternal, Brain, Cecum, Colon, Duodenum, Heart, Ileum, Jejunum, Kidney/1, Kidney/2, Lungs, Mandibular Lymph Node/2, Ovary/1, Ovary/2, Pancreas, Parathyroid Gland/2, Peyer's Patches (GALT), Pituitary Gland, Rectum, Sciatic Nerve, Spinal Cord - cervical, Spinal Cord - midthoracic, Spinal Cord - lumbar, Stomach, Thyroid Gland/1, Thyroid Gland/2, Trachea, Urinary Bladder, Uterus

- cervix.

Animal No:

46

MACROSCOPIC FINDINGS

days of treatment

sacrifice group : planned terminal : planned terminal necropsy status date of start of treatment: 08/01/07 date of end of treatment: 18/02/07

date of necropsy : 19/02/07

No findings noted

MICROSCOPIC FINDINGS

No tissues taken

Animal No:

MACROSCOPIC FINDINGS

days of treatment : 43

sacrifice group : planned terminal : planned terminal necropsy status date of start of treatment: 08/01/07 date of end of treatment: 19/02/07

: 20/02/07 date of necropsy

Mandibular lymph nodes

both sides Discolouration DARK RED

: Dytek® DCH-99 Test item

Test System: Combined Repro/Tox Screening Test by Gavage in Rats

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Table 7 **Individual Animal Data Records**

Animal No:

47

SEX:

Female

DOSE GROUP:

Group 1, 0 mg/kg/day Control

MACROSCOPIC FINDINGS

(continued)

No abnormalities were found in any of the other

tissues examined

MICROSCOPIC FINDINGS

Clitoral Gland/1

Cystic duct, inspissated contents (minimal)

Kidney/1

Tubular basophilia, corticomedullary (minimal)

Liver

Inflammation, granulocytic/mononuclear (slight)

Mandibular Lymph

Node/1

Congestion/erythrophagocytosis (slight) (correlates

to GROSS finding)

Mandibular Lymph

Node/2

Plasmacytosis (slight)

Lymphoid hyperplasia (slight)

Pituitary Gland

Cyst(s) present

Spinal Cord - lumbar

Axonal swelling, focal (minimal)

Spleen

Hemopoietic foci, primarily erythroid (slight)

Stomach

Dilated gastric pits (minimal)

Uterus

Implantation site(s) present

No abnormalities found in: Adrenal Gland/1, Adrenal Gland/2, Aorta, Bone - sternum, Bone Marrow sternal, Brain, Cecum, Clitoral Gland/2, Colon, Duodenum, Esophagus, Heart, Ileum, Jejunum, Kidney/2, Lungs, Mesenteric Lymph Node, Ovary/1,

Ovary/2, Pancreas, Parathyroid Gland/1, Parathyroid Gland/2, Peyer's Patches (GALT), Rectum, Sciatic Nerve, Spinal Cord - cervical, Spinal Cord - midthoracic, Thymus, Thyroid Gland/ 1, Thyroid Gland/2, Trachea, Urinary Bladder,

Uterus - cervix, Vagina.

Test item : Dytek® DCH-99

Test System : Combined Repro/Tox Screening Test by Gavage in Rats

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Table 7 **Individual Animal Data Records**

Animal No:

48

: Invista S.a.r.l.

SEX:

Sponsor

Female

DOSE GROUP:

Group 1, 0 mg/kg/day Control

MACROSCOPIC FINDINGS

days of treatment : 43

: planned terminal sacrifice group necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 19/02/07

date of necropsy : 20/02/07

No findings noted

MICROSCOPIC FINDINGS

Clitoral Gland/1

Cystic duct, inspissated contents (slight)

Clitoral Gland/2

Cystic duct, inspissated contents (moderate)

Kidney/1

Inflammation, lymphoid (minimal)

Liver

Inflammation, granulocytic/mononuclear (minimal)

Spleen

Hemopoietic foci, primarily erythroid (slight)

Thymus

Lymphoid atrophy - involution (slight)

Uterus

Implantation site(s) present

Number of Sections less than protocol for Mandibular Lymph Node/1 (0), Mandibular Lymph

Node/2 (0).

No abnormalities found in: Adrenal Gland/1, Adrenal Gland/2, Aorta, Bone - sternum, Bone Marrow sternal, Brain, Cecum, Colon, Duodenum, Esophagus, Heart, Ileum, Jejunum, Kidney/2, Lungs, Mesenteric Lymph Node, Ovary/1, Ovary/2, Pancreas, Parathyroid Gland/1, Parathyroid Gland/2, Peyer's Patches (GALT), Pituitary Gland, Rectum, Sciatic Nerve, Spinal Cord - cervical, Spinal Cord midthoracic, Spinal Cord - lumbar, Stomach, Thyroid Gland/1, Thyroid Gland/2, Trachea, Urinary

Bladder, Uterus - cervix, Vagina.

: Dytek® DCH-99 Test item

Test System : Combined Repro/Tox Screening Test by Gavage in Rats

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Table 7 **Individual Animal Data Records**

Animal No:

49

: Invista S.a.r.l.

SEX:

Sponsor

Female

DOSE GROUP:

Group 1, 0 mg/kg/day Control

MACROSCOPIC FINDINGS

days of treatment : 44

sacrifice group : planned terminal necropsy status : planned terminal

date of end of treatment: 20/02/07

date of start of treatment: 08/01/07

date of necropsy

: 21/02/07

No findings noted

MICROSCOPIC FINDINGS

No tissues taken

Animal No:

50

MACROSCOPIC FINDINGS

days of treatment : 45

sacrifice group : planned terminal

: suspected infertile

necropsy status date of start of treatment: 08/01/07

date of end of treatment: 21/02/07 date of necropsy

: 21/02/07

No findings noted

MICROSCOPIC FINDINGS

Uterus

Estrus epithelium present

No abnormalities found in: Ovary/1, Ovary/2, Uterus

- cervix, Vagina.

Test item : Dytek® DCH-99 NOTOX no. : Test System : Combined Repro/Tox Screening Test by Gavage in Rats Propath no. :

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Table 7 Individual Animal Data Records

Animal No: 11 SEX: Male

DOSE GROUP: Group 2, 50 mg/kg/day

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal necropsy status : suspected infertile date of start of treatment: 08/01/07 date of end of treatment: 07/02/07 date of necropsy : 08/02/07

No findings noted

MICROSCOPIC FINDINGS

No abnormality detected

No abnormalities found in: Coagulating Gland/1, Coagulating Gland/2, Epididymis/1, Epididymis/2, Prostate Gland, Seminal Vesicle/1, Seminal

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Vesicle/2, Testes/1, Testes/2.

Animal No: 12

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 07/02/07 date of necropsy : 08/02/07

No findings noted

MICROSCOPIC FINDINGS

Adrenal Gland/1 Vacuolation, multifocal in z. fasiculata (minimal)

Adrenal Gland/2 Vacuolation, multifocal in z. fasiculata (minimal)

Liver Inflammation, granulocytic/mononuclear (slight)

Lungs Osseous metaplasia (minimal)

No abnormalities found in: Kidney/1, Kidney/2,

Thymus.

Test item : Dytek® DCH-99 NOTOX no. : 479003
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Table 7 Individual Animal Data Records

Animal No: 13 SEX: Male

DOSE GROUP: Group 2, 50 mg/kg/day

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 07/02/07 date of necropsy : 08/02/07

No findings noted

MICROSCOPIC FINDINGS

Liver Inflammation, granulocytic/mononuclear (slight)

No abnormalities found in: Adrenal Gland/1, Adrenal

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Gland/2, Kidney/1, Kidney/2, Lungs, Thymus.

Animal No: 14

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 07/02/07 date of necropsy : 08/02/07

No findings noted

MICROSCOPIC FINDINGS

Adrenal Gland/1 Vacuolation, multifocal in z. fasiculata (minimal)

Liver Inflammation, granulocytic/mononuclear (slight)

Lungs Lymphoid hyperplasia (BALT) (minimal)

No abnormalities found in: Adrenal Gland/2, Kidney/

1, Kidney/2, Thymus.

: Dytek® DCH-99 Test item

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Table 7 **Individual Animal Data Records**

Animal No:

15

SEX:

Male

DOSE GROUP:

Group 2, 50 mg/kg/day

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal : suspected infertile necropsy status date of start of treatment: 08/01/07 date of end of treatment: 07/02/07

date of necropsy

: 08/02/07

Bone

tail apex Bent

No abnormalities were found in any of the other

tissues examined

MICROSCOPIC FINDINGS

Bone - other sites

Osseous metaplasia, focal (slight) (correlates to

GROSS finding)

No abnormalities found in: Coagulating Gland/1, Coagulating Gland/2, Epididymis/1, Epididymis/2,

Prostate Gland, Seminal Vesicle/1, Seminal

Vesicle/2, Testes/1, Testes/2.

Animal No: 16

MACROSCOPIC FINDINGS

days of treatment : 31

: planned terminal sacrifice group : planned terminal necropsy status date of start of treatment: 08/01/07 date of end of treatment: 07/02/07 date of necropsy : 08/02/07

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammation, granulocytic/mononuclear (slight)

No abnormalities found in: Adrenal Gland/1, Adrenal

Gland/2, Kidney/1, Kidney/2, Lungs, Thymus.

Test item : Dytek® DCH-99
Test System : Combined Repro/Tox Screening Test by Gavage in Rats
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Table 7 Individual Animal Data Records

Animal No: 17 SEX: Male

DOSE GROUP: Group 2, 50 mg/kg/day

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 07/02/07 date of necropsy : 08/02/07

No findings noted

MICROSCOPIC FINDINGS

Kidney/1 Inflammation, lymphoid (slight)

Tubular basophilia, outer stripe medulla, diffuse

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(moderate)

Kidney/2
Inflammation, lymphoid (slight)

Tubular basophilia, outer stripe medulla, diffuse

(moderate)

Liver Inflammation, granulocytic/mononuclear (minimal)

No abnormalities found in: Adrenal Gland/1, Adrenal

Gland/2, Lungs, Thymus.

Animal No: 18

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 07/02/07 date of necropsy : 08/02/07

No findings noted

MICROSCOPIC FINDINGS

No tissues taken

Test item : Dytek® DCH-99
Test System : Combined Repro/Tox Screening Test by Gavage in Rats

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Table 7 Individual Animal Data Records

Animal No: 19 SEX: Male

DOSE GROUP: Group 2, 50 mg/kg/day

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 07/02/07 date of necropsy : 08/02/07

No findings noted

MICROSCOPIC FINDINGS

No tissues taken

Animal No: 20

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal necropsy status : suspected infertile date of start of treatment: 08/01/07 date of end of treatment: 07/02/07 date of necropsy : 08/02/07

Seminal vesicles

right side Reduced in size

No abnormalities were found in any of the other

tissues examined

MICROSCOPIC FINDINGS

Seminal Vesicle/1

Small organ, normal histology (correlates to GROSS finding)

No abnormalities found in: Coagulating Gland/1, Coagulating Gland/2, Epididymis/1, Epididymis/2, Prostate Gland, Seminal Vesicle/2, Testes/1,

Testes/2.

Table 7 Individual Animal Data Records

Animal No: 51 SEX: Female

DOSE GROUP: Group 2, 50 mg/kg/day

MACROSCOPIC FINDINGS

days of treatment : 45

sacrifice group : planned terminal necropsy status : suspected infertile date of start of treatment: 08/01/07 date of end of treatment: 21/02/07 date of necropsy : 21/02/07

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Cervix

Enlarged

Uterus

Contains fluid

Enlarged

No abnormalities were found in any of the other

tissues examined

MICROSCOPIC FINDINGS

Uterus

Extreme dilation, endothelium with focal areas of squamous metaplasia (correlates to GROSS finding)

Number of Sections less than protocol for Uterus -

cervix (0), Vagina (0).

No abnormalities found in: Ovary/1, Ovary/2.

Animal No:

L No: 52

MACROSCOPIC FINDINGS

days of treatment : 45

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 21/02/07 date of necropsy : 22/02/07

No findings noted

: Dytek® DCH-99 Test item NOTOX no. : 479003 Test System : Combined Repro/Tox Screening Test by Gavage in Rats Propath no. 07014 : Invista S.a.r.l. Sponsor Date 23.May.2007

Table 7 **Individual Animal Data Records**

Animal No:

52

SEX:

Female

DOSE GROUP:

Group 2, 50 mg/kg/day

MICROSCOPIC FINDINGS

Kidney/1

Hyaline cast(s) (minimal)

Tubular basophilia, corticomedullary (minimal)

Liver

Inflammation, granulocytic/mononuclear (minimal)

No abnormalities found in: Kidney/2, Lungs, Thymus.

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Animal No:

53

MACROSCOPIC FINDINGS

days of treatment : 42

sacrifice group : planned terminal : planned terminal necropsy status date of start of treatment: 08/01/07 date of end of treatment: 18/02/07 : 19/02/07

date of necropsy

Adrenal glands

both sides Enlarged

No abnormalities were found in any of the other

tissues examined

MICROSCOPIC FINDINGS

Adrenal Gland/1

Hypertrophy, cortical diffuse (slight) (correlates

to GROSS finding)

Adrenal Gland/2

Hypertrophy, cortical diffuse (slight)

Kidney/1

Inflammation, lymphoid (minimal)

Liver

Inflammation, granulocytic/mononuclear (minimal)

Lungs

Osseous metaplasia (minimal)

No abnormalities found in: Kidney/2, Thymus.

Test item : Dytek® DCH-99 NOTOX no. : 479003
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Table 7 Individual Animal Data Records

Animal No: 54
SEX: Female

DOSE GROUP: Group 2, 50 mg/kg/day

MACROSCOPIC FINDINGS

days of treatment : 43

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 19/02/07 date of necropsy : 20/02/07

No findings noted

MICROSCOPIC FINDINGS

Liver Inflammation, granulocytic/mononuclear (minimal)

No abnormalities found in: Kidney/1, Kidney/2,

Lungs, Thymus.

Animal No: 55

MACROSCOPIC FINDINGS

days of treatment : 45

sacrifice group : planned terminal necropsy status : suspected infertile date of start of treatment: 08/01/07 date of end of treatment: 21/02/07 date of necropsy : 21/02/07

No findings noted

MICROSCOPIC FINDINGS

Uterus Deciduoma present

Vagina Epithelial mucification (severe)

No abnormalities found in: Ovary/1, Ovary/2, Uterus

- cervix.

Test item : Dytek® DCH-99 NOTOX no. : 479003
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Table 7 Individual Animal Data Records

Animal No: 56
SEX: Female

DOSE GROUP: Group 2, 50 mg/kg/day

MACROSCOPIC FINDINGS

days of treatment : 45

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 21/02/07 date of necropsy : 22/02/07

No findings noted

MICROSCOPIC FINDINGS

No tissues taken

Animal No: 57

MACROSCOPIC FINDINGS

days of treatment : 45

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 21/02/07 date of necropsy : 22/02/07

No findings noted

MICROSCOPIC FINDINGS

No tissues taken

Animal No: 58

MACROSCOPIC FINDINGS

days of treatment : 42

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 18/02/07 date of necropsy : 19/02/07

No findings noted

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Table 7 Individual Animal Data Records

Animal No: 58

SEX: Female

DOSE GROUP: Group 2, 50 mg/kg/day

MICROSCOPIC FINDINGS

Kidney/1 Tubular basophilia, corticomedullary (minimal)

Kidney/2 Inflammation, lymphoid (minimal)

Liver Inflammation, granulocytic/mononuclear (minimal)

No abnormalities found in: Lungs, Thymus.

Animal No: 59

MACROSCOPIC FINDINGS

days of treatment : 43

right side, hindleg Alopecia

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 19/02/07

date of necropsy : 20/02/07

No abnormalities were found in any of the other

tissues examined

MICROSCOPIC FINDINGS

Skin

Kidney/1 Hyaline cast(s) (slight)

Kidney/2 Hyaline cast(s) (slight)

Tubular basophilia, corticomedullary (slight)

Lungs Alveolar inflammation, lymphocytic (minimal)

Skin Telogen (resting) phase follicles present

(correlates to GROSS finding)

No abnormalities found in: Liver, Thymus.

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Table 7 Individual Animal Data Records

Animal No: 60 SEX: Fer

SEX: Female
DOSE GROUP: Group 2, 50 mg/kg/day

MACROSCOPIC FINDINGS

days of treatment : 39

sacrifice group : planned terminal necropsy status : suspected infertile date of start of treatment: 08/01/07 date of end of treatment: 15/02/07 date of necropsy : 15/02/07

No abnormalities were found in any of the other

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tissues examined

contents: Reddish

MICROSCOPIC FINDINGS

Stomach

Stomach No correlate to macro

Uterus Implantation site(s) present

Inflammation, granulocytic/lymphocytic (slight)

Serosanguinous uterine contents

Vagina Epithelial mucification (severe)

No abnormalities found in: Ovary/1, Ovary/2, Uterus

- cervix.

Animal No: 21 SEX: Male

DOSE GROUP: Group 3, 150 mg/kg/day

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 07/02/07 date of necropsy : 08/02/07

No findings noted

Test item : Dytek® DCH-99 NOTOX no. : 479003
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Table 7 Individual Animal Data Records

Animal No: 21 SEX: Male

DOSE GROUP: Group 3, 150 mg/kg/day

MICROSCOPIC FINDINGS

Adrenal Gland/1 Vacuolation, multifocal in z. fasiculata (slight)

Adrenal Gland/2 Vacuolation, multifocal in z. fasiculata (slight)

Liver Inflammation, granulocytic/mononuclear (minimal)

Lungs Alveolar macrophage foci (minimal)

No abnormalities found in: Kidney/1, Kidney/2,

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Thymus.

Animal No: 22

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal
necropsy status : planned terminal
date of start of treatment: 08/01/07
date of end of treatment: 07/02/07
date of necropsy : 08/02/07

No findings noted

MICROSCOPIC FINDINGS

Liver Inflammation, granulocytic/mononuclear (minimal)

Hematopoietic cell foci (minimal)

Lungs Osseous metaplasia (slight)

No abnormalities found in: Adrenal Gland/1, Adrenal

Gland/2, Kidney/1, Kidney/2, Thymus.

Test item : Dytek® DCH-99 NOTOX no. : 479003
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Table 7 Individual Animal Data Records

Animal No: 23 SEX: Male

DOSE GROUP: Group 3, 150 mg/kg/day

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 07/02/07 date of necropsy : 08/02/07

No findings noted

MICROSCOPIC FINDINGS

Liver Inflammation, granulocytic/mononuclear (slight)

Thymus Lymphoid atrophy - involution (slight)

No abnormalities found in: Adrenal Gland/1, Adrenal

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Gland/2, Kidney/1, Kidney/2, Lungs.

Animal No: 24

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 07/02/07 date of necropsy : 08/02/07

No findings noted

MICROSCOPIC FINDINGS

Liver Inflammation, granulocytic/mononuclear (minimal)

No abnormalities found in: Adrenal Gland/1, Adrenal

Gland/2, Kidney/1, Kidney/2, Lungs, Thymus.

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Test item : Dytek® DCH-99 NOTOX no. : 479003
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Table 7 Individual Animal Data Records

Animal No: 25 SEX: Male

DOSE GROUP: Group 3, 150 mg/kg/day

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 07/02/07 date of necropsy : 08/02/07

No findings noted

MICROSCOPIC FINDINGS

Kidney/1 Inflammation, lymphoid (minimal)

Tubular basophilia, corticomedullary (minimal)

Liver Inflammation, granulocytic/mononuclear (minimal)

Lungs Alveolar inflammation, lymphocytic (minimal)

No abnormalities found in: Adrenal Gland/1, Adrenal

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Gland/2, Kidney/2, Thymus.

Animal No: 26

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 07/02/07 date of necropsy : 08/02/07

No findings noted

MICROSCOPIC FINDINGS

No tissues taken

: Dytek® DCH-99 NOTOX no. : Test item 479003 Test System: Combined Repro/Tox Screening Test by Gavage in Rats Propath no. 07014

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Sponsor : Invista S.a.r.l. Date 23.May.2007

Table 7 **Individual Animal Data Records**

27 Animal No: SEX: Male

DOSE GROUP: Group 3, 150 mg/kg/day

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 07/02/07 date of necropsy : 08/02/07

No findings noted

MICROSCOPIC FINDINGS

No tissues taken

Animal No: 28

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal : planned terminal necropsy status date of start of treatment: 08/01/07 date of end of treatment: 07/02/07 : 08/02/07 date of necropsy

No findings noted

MICROSCOPIC FINDINGS

No tissues taken

29 Animal No:

MACROSCOPIC FINDINGS

days of treatment : 31

: planned terminal sacrifice group : planned terminal necropsy status date of start of treatment: 08/01/07 date of end of treatment: 07/02/07 date of necropsy : 08/02/07

No findings noted

Test item : Dytek® DCH-99 NOTOX no. : Test System : Combined Repro/Tox Screening Test by Gavage in Rats Propath no. :

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Table 7 Individual Animal Data Records

Animal No: 29 SEX: Male

DOSE GROUP: Group 3, 150 mg/kg/day

MICROSCOPIC FINDINGS

No tissues taken

Animal No: 30

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 07/02/07 date of necropsy : 08/02/07

left side Reduced in size

No abnormalities were found in any of the other

tissues examined

MICROSCOPIC FINDINGS

Seminal vesicles

Seminal Vesicle/1 No correlate to macro

No abnormalities found in: Coagulating Gland/1,

Coagulating Gland/2, Seminal Vesicle/2.

Animal No: 61 SEX: Female

MACROSCOPIC FINDINGS

days of treatment : 45

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 21/02/07 date of necropsy : 22/02/07

No findings noted

MICROSCOPIC FINDINGS

No tissues taken

: Dytek® DCH-99 Test item NOTOX no. : 479003 Test System : Combined Repro/Tox Screening Test by Gavage in Rats Propath no. 07014

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: Invista S.a.r.l. Date Sponsor 23.May.2007

Table 7 **Individual Animal Data Records**

62 Animal No: SEX:

Female

DOSE GROUP: Group 3, 150 mg/kg/day

MACROSCOPIC FINDINGS

: 42 days of treatment

: planned terminal sacrifice group necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 18/02/07 date of necropsy : 19/02/07

No findings noted

MICROSCOPIC FINDINGS

Alveolar inflammation, lymphocytic (minimal) Lungs

No abnormalities found in: Kidney/1, Kidney/2,

Liver, Thymus.

Animal No: 63

MACROSCOPIC FINDINGS

days of treatment : 44

sacrifice group : planned terminal : planned terminal necropsy status date of start of treatment: 08/01/07 date of end of treatment: 20/02/07 date of necropsy : 21/02/07

No findings noted

MICROSCOPIC FINDINGS

Hematopoietic cell foci (minimal) Liver

No abnormalities found in: Kidney/1, Kidney/2,

Lungs, Thymus.

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Test item : Dytek® DCH-99 NOTOX no. : Test System : Combined Repro/Tox Screening Test by Gavage in Rats Propath no. :

Table 7 Individual Animal Data Records

Animal No: 64 SEX: Female

DOSE GROUP: Group 3, 150 mg/kg/day

MACROSCOPIC FINDINGS

days of treatment : 42

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 18/02/07 date of necropsy : 19/02/07

No findings noted

MICROSCOPIC FINDINGS

Liver Inflammation, granulocytic/mononuclear (minimal)

No abnormalities found in: Kidney/1, Kidney/2,

Lungs, Thymus.

Animal No: 65

MACROSCOPIC FINDINGS

days of treatment : 42

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 18/02/07 date of necropsy : 19/02/07

No findings noted

MICROSCOPIC FINDINGS

No tissues taken

Animal No: 66

MACROSCOPIC FINDINGS

days of treatment : 44

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 20/02/07 date of necropsy : 21/02/07

Test item : Dytek® DCH-99 NOTOX no. :
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Table 7 Individual Animal Data Records

Animal No: 66 SEX: Female

DOSE GROUP: Group 3, 150 mg/kg/day

MACROSCOPIC FINDINGS

(continued)

Liver right lateral lobe Diaphragmatic hernia

No abnormalities were found in any of the other

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tissues examined

MICROSCOPIC FINDINGS

Liver Hepatodiaphragmatic nodule present (correlates to

GROSS finding)

Inflammation, granulocytic/mononuclear (minimal)

No abnormalities found in: Kidney/1, Kidney/2,

Lungs, Thymus.

Animal No: 67

MACROSCOPIC FINDINGS

days of treatment : 44

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 20/02/07 date of necropsy : 21/02/07

No findings noted

MICROSCOPIC FINDINGS

No tissues taken

Animal No: 68

MACROSCOPIC FINDINGS

days of treatment : 44

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 20/02/07 date of necropsy : 21/02/07

Test item : Dytek® DCH-99 NOTOX no. : Test System : Combined Repro/Tox Screening Test by Gavage in Rats Propath no. :

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Table 7 **Individual Animal Data Records**

Animal No: 68 Female SEX:

DOSE GROUP: Group 3, 150 mg/kg/day

MACROSCOPIC FINDINGS

(continued)

No findings noted

MICROSCOPIC FINDINGS

No tissues taken

Animal No: 69

MACROSCOPIC FINDINGS

days of treatment : 42

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 18/02/07 : 19/02/07 date of necropsy

No findings noted

MICROSCOPIC FINDINGS

No tissues taken

Animal No: 70

MACROSCOPIC FINDINGS

days of treatment : 43

sacrifice group : planned cerminal : planned terminal : 08/01/07 date of start of treatment: 08/01/07 date of end of treatment: 19/02/07 : 20/02/07 date of necropsy

No findings noted

Test item : Dytek® DCH-99 NOTOX no. : 479003
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Table 7 Individual Animal Data Records

Animal No: 70 SEX: Female

DOSE GROUP: Group 3, 150 mg/kg/day

MICROSCOPIC FINDINGS

Thymus Lymphoid atrophy - involution (minimal)

Ectopic parathyroid tissue

No abnormalities found in: Kidney/1, Kidney/2,

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Liver, Lungs.

Animal No: 31 SEX: Male

DOSE GROUP: Group 4, 500 mg/kg/day

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 07/02/07

date of necropsy : 08/02/07

Liver Discolouration PALE

No abnormalities were found in any of the other

tissues examined

MICROSCOPIC FINDINGS

Adrenal Gland/1 Vacuolation, multifocal in z. fasiculata (slight)

Adrenal Gland/2 Vacuolation, multifocal in z. fasiculata (minimal)

Liver Inflammation, granulocytic/mononuclear (minimal)

Hepatocellular vacuolation (slight) (correlates to

GROSS finding)

Lungs Alveolar inflammation, lymphocytic (minimal)

Spleen Hemopoietic foci, primarily erythroid (slight)

Thymus Lymphoid atrophy - involution (slight)

Test item : Dytek® DCH-99 NOTOX no. : 479003
Test System : Combined Repro/Tox Screening Test by Gavage in Rats Propath no. : 07014

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Table 7 Individual Animal Data Records

Animal No: 31 SEX: Male

DOSE GROUP: Group 4, 500 mg/kg/day

MICROSCOPIC FINDINGS

(continued)

No abnormalities found in: Aorta, Bone - sternum, Bone Marrow - sternal, Brain, Cecum, Coagulating Gland/1, Coagulating Gland/2, Colon, Duodenum, Epididymis/1, Epididymis/2, Esophagus, Heart, Ileum, Jejunum, Kidney/1, Kidney/2, Mandibular Lymph Node/1, Mandibular Lymph Node/2, Mesenteric Lymph Node, Pancreas, Parathyroid Gland/1, Parathyroid Gland/2, Peyer's Patches (GALT), Pituitary Gland, Preputial Gland/1, Preputial Gland/2, Prostate Gland, Rectum, Sciatic Nerve, Seminal Vesicle/1, Seminal Vesicle/2, Spinal Cord - cervical, Spinal Cord - midthoracic, Spinal Cord - lumbar, Stomach, Testes/1, Testes/2, Thyroid Gland/1, Thyroid Gland/2, Trachea, Urinary Bladder.

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Animal No: 32

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 07/02/07 date of necropsy : 08/02/07

No findings noted

MICROSCOPIC FINDINGS

Adrenal Gland/1 Vacuolation, multifocal in z. fasiculata (minimal)

Adrenal Gland/2 Vacuolation, multifocal in z. fasiculata (slight)

Kidney/1 Tubular basophilia, corticomedullary (minimal)

Liver Inflammation, granulocytic/mononuclear (minimal)

Lungs Alveolar inflammation, lymphocytic (minimal)

: Dytek® DCH-99 Test item

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Individual Animal Data Records Table 7

Animal No:

32

SEX:

Male

DOSE GROUP:

Group 4, 500 mg/kg/day

MICROSCOPIC FINDINGS

(continued)

Mandibular Lymph

Plasmacytosis (moderate)

Node/1

Spleen

Hemopoietic foci, primarily erythroid (moderate)

Hemosiderin pigment (minimal)

No abnormalities found in: Aorta, Bone - sternum, Bone Marrow - sternal, Brain, Cecum, Coagulating Gland/1, Coagulating Gland/2, Colon, Duodenum, Epididymis/1, Epididymis/2, Esophagus, Heart, Ileum, Jejunum, Kidney/2, Mandibular Lymph Node/2, Mesenteric Lymph Node, Pancreas, Parathyroid Gland/1, Parathyroid Gland/2, Peyer's Patches (GALT), Pituitary Gland, Preputial Gland/1,

Preputial Gland/2, Prostate Gland, Rectum, Sciatic Nerve, Seminal Vesicle/1, Seminal Vesicle/2, Spinal Cord - cervical, Spinal Cord - midthoracic, Spinal Cord - lumbar, Stomach, Testes/1, Testes/2, Thymus, Thyroid Gland/1, Thyroid Gland/2, Trachea,

Urinary Bladder.

Animal No:

33

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal : suspected infertile necropsy status date of start of treatment: 08/01/07 date of end of treatment: 07/02/07 : 08/02/07

date of necropsy

Liver

Discolouration PALE

No abnormalities were found in any of the other

tissues examined

Test item : Dytek® DCH-99

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Table 7 Individual Animal Data Records

Animal No:

33

SEX:

Male

DOSE GROUP:

Group 4, 500 mg/kg/day

MICROSCOPIC FINDINGS

Liver

Inflammation, granulocytic/mononuclear (slight)
Hepatocellular vacuolation (minimal) (correlates to

GROSS finding)

No abnormalities found in: Coagulating Gland/1, Coagulating Gland/2, Epididymis/1, Epididymis/2,

Prostate Gland, Seminal Vesicle/1, Seminal

Vesicle/2, Testes/1, Testes/2.

Animal No: 34

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal
necropsy status : planned terminal
date of start of treatment: 08/01/07
date of end of treatment: 07/02/07
date of necropsy : 08/02/07

No findings noted

MICROSCOPIC FINDINGS

Adrenal Gland/1

Extracapsular nodule present

Vacuolation, multifocal in z. fasiculata (minimal)

Adrenal Gland/2

Vacuolation, multifocal in z. fasiculata (minimal)

Kidney/1

Hyaline cast(s) (minimal)

Tubular basophilia, corticomedullary (minimal)

Kidney/2

Tubular basophilia, corticomedullary (minimal)

Liver

Inflammation, granulocytic/mononuclear (minimal)

Mandibular Lymph

Node/1

Lymphoid hyperplasia (slight)

Sciatic Nerve

Myelin fragmentation (minimal)

Spleen

Hemopoietic foci, primarily erythroid (slight)

: Dytek® DCH-99 Test item

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Table 7 Individual Animal Data Records

Animal No: 34 SEX: Male

DOSE GROUP: Group 4, 500 mg/kg/day

MICROSCOPIC FINDINGS

(continued)

No abnormalities found in: Aorta, Bone - sternum, Bone Marrow - sternal, Brain, Cecum, Coagulating Gland/1, Coagulating Gland/2, Colon, Duodenum, Epididymis/1, Epididymis/2, Esophagus, Heart, Ileum, Jejunum, Lungs, Mandibular Lymph Node/2, Mesenteric Lymph Node, Pancreas, Parathyroid Gland/1, Parathyroid Gland/2, Peyer's Patches (GALT), Pituitary Gland, Preputial Gland/1,

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Preputial Gland/2, Prostate Gland, Rectum, Seminal Vesicle/1, Seminal Vesicle/2, Spinal Cord - cervical, Spinal Cord - midthoracic, Spinal Cord - lumbar, Stomach, Testes/1, Testes/2, Thymus, Thyroid Gland/1, Thyroid Gland/2, Trachea, Urinary

Bladder.

Animal No: 35

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal : suspected infertile necropsy status date of start of treatment: 08/01/07 date of end of treatment: 07/02/07 date of necropsy : 08/02/07

Discolouration PALE Liver

No abnormalities were found in any of the other

tissues examined

MICROSCOPIC FINDINGS

Inflammation, granulocytic/mononuclear (minimal) Liver

(correlates to GROSS finding) Hepatocellular vacuolation (minimal)

Lungs Alveolar inflammation, lymphocytic (minimal)

Peri- vascular/bronchial, inflammatory cell foci

(minimal)

Exocrine atrophy, focal (minimal) Pancreas

: Dytek® DCH-99 Test item

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Table 7 Individual Animal Data Records

Animal No:

35

SEX:

Male

DOSE GROUP:

Group 4, 500 mg/kg/day

MICROSCOPIC FINDINGS

(continued)

Pituitary Gland

Cyst(s) present

Sciatic Nerve

Myelin fragmentation (minimal)

Spleen

Hemopoietic foci, primarily erythroid (slight)

Thymus

Lymphoid atrophy - involution (slight)

Number of Sections less than protocol for

Coagulating Gland/1 (0).

No abnormalities found in: Adrenal Gland/1, Adrenal Gland/2, Aorta, Bone - sternum, Bone Marrow sternal, Brain, Cecum, Coagulating Gland/2, Colon, Duodenum, Epididymis/1, Epididymis/2, Esophagus, Heart, Ileum, Jejunum, Kidney/1, Kidney/2,

Mandibular Lymph Node/1, Mandibular Lymph Node/2, Mesenteric Lymph Node, Parathyroid Gland/1,

Parathyroid Gland/2, Peyer's Patches (GALT), Preputial Gland/1, Preputial Gland/2, Prostate Gland, Rectum, Seminal Vesicle/1, Seminal Vesicle/

2, Spinal Cord - cervical, Spinal Cord - midthoracic, Spinal Cord - lumbar, Stomach, Testes/1, Testes/2, Thyroid Gland/1, Thyroid

Gland/2, Trachea, Urinary Bladder.

Animal No:

36

MACROSCOPIC FINDINGS

days of treatment : 31

: planned terminal sacrifice group : planned terminal necropsy status date of start of treatment: 08/01/07 date of end of treatment: 07/02/07

date of necropsy

: 08/02/07

Liver

Discolouration PALE

No abnormalities were found in any of the other

tissues examined

Test item : Dytek® DCH-99

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Table 7 Individual Animal Data Records

Animal No:

36

SEX:

Male

DOSE GROUP:

Group 4, 500 mg/kg/day

MICROSCOPIC FINDINGS

Adrenal Gland/1

Vacuolation, multifocal in z. fasiculata (minimal)

Adrenal Gland/2

Vacuolation, multifocal in z. fasiculata (slight)

Liver

Inflammation, granulocytic/mononuclear (minimal) Hepatocellular vacuolation (minimal) (correlates to

GROSS finding)

Lungs

Alveolar macrophage foci (slight)

Alveolar inflammation, lymphocytic (minimal)

Sciatic Nerve

Myelin fragmentation (minimal)

Spleen

Hemopoietic foci, primarily erythroid (slight)

Number of Sections less than protocol for

Coagulating Gland/1 (0).

No abnormalities found in: Aorta, Bone - sternum, Bone Marrow - sternal, Brain, Cecum, Coagulating

Gland/2, Colon, Duodenum, Epididymis/1,

Epididymis/2, Esophagus, Heart, Ileum, Jejunum, Kidney/1, Kidney/2, Mandibular Lymph Node/1, Mandibular Lymph Node/2, Mesenteric Lymph Node, Pancreas, Parathyroid Gland/1, Parathyroid Gland/2, Peyer's Patches (GALT), Pituitary Gland, Preputial Gland/1, Preputial Gland/2, Prostate

Gland, Rectum, Seminal Vesicle/1, Seminal Vesicle/2, Spinal Cord - cervical, Spinal Cord - midthoracic, Spinal Cord - lumbar, Stomach, Testes/1, Testes/2, Thymus, Thyroid Gland/1, Thyroid Gland/2, Trachea, Urinary Bladder.

Animal No:

37

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal
necropsy status : suspected infertile
date of start of treatment: 08/01/07

date of end of treatment: 07/02/07
date of necropsy : 08/02/07

Test item : Dytek® DCH-99 NOTOX no. : 479003
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Table 7 Individual Animal Data Records

Animal No: 37 SEX: Male

DOSE GROUP: Group 4, 500 mg/kg/day

MACROSCOPIC FINDINGS

(continued)

No findings noted

MICROSCOPIC FINDINGS

No abnormality detected

No abnormalities found in: Coagulating Gland/1, Coagulating Gland/2, Epididymis/1, Epididymis/2, Prostate Gland, Seminal Vesicle/1, Seminal

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Vesicle/2, Testes/1, Testes/2.

Animal No: 38

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 07/02/07 date of necropsy : 08/02/07

No findings noted

MICROSCOPIC FINDINGS

No tissues taken

Animal No: 39

MACROSCOPIC FINDINGS

days of treatment : 31

sacrifice group : planned terminal necropsy status : suspected infertile date of start of treatment: 08/01/07 date of end of treatment: 07/02/07 date of necropsy : 08/02/07

No findings noted

: Dytek® DCH-99 Test item NOTOX no. : 479003 Test System : Combined Repro/Tox Screening Test by Gavage in Rats Propath no. 07014

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Individual Animal Data Records Table 7

39 Animal No: SEX: Male

DOSE GROUP: Group 4, 500 mg/kg/day

MICROSCOPIC FINDINGS

Acinar atrophy, diffuse (slight) Coagulating Gland/1

Seminal Vesicle/1 Acinar atrophy, diffuse (slight)

> No abnormalities found in: Coagulating Gland/2, Epididymis/1, Epididymis/2, Prostate Gland,

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Seminal Vesicle/2, Testes/1, Testes/2.

Animal No: 40

MACROSCOPIC FINDINGS

days of treatment : 31

: planned terminal sacrifice group : planned terminal necropsy status date of start of treatment: 08/01/07 date of end of treatment: 07/02/07

date of necropsy : 08/02/07

Discolouration PALE Liver

No abnormalities were found in any of the other

tissues examined

MICROSCOPIC FINDINGS

No correlate to macro Liver

71 Animal No: Female SEX:

MACROSCOPIC FINDINGS

days of treatment : 44

: planned terminal sacrifice group necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 20/02/07

: 21/02/07 date of necropsy

Mandibular lymph

nodes

right side Discolouration DARK RED

Table 7 Individual Animal Data Records

Animal No: 5

71 Female

DOSE GROUP:

Group 4, 500 mg/kg/day

MACROSCOPIC FINDINGS

(continued)

No abnormalities were found in any of the other

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tissues examined

MICROSCOPIC FINDINGS

Adrenal Gland/1

Extracapsular nodule present

Aorta

Base of heart

Clitoral Gland/1

Cystic duct, inspissated contents (slight)

Kidney/1

Tubular basophilia, corticomedullary (minimal)

Lungs

Alveolar macrophage foci (slight)

Alveolar inflammation, lymphocytic (minimal)

Mandibular Lymph

Node/1

Congestion/erythrophagocytosis (moderate)

(correlates to GROSS finding)

Spleen

Hemopoietic foci, primarily erythroid (minimal)

Thymus

Lymphoid atrophy - involution (slight)

Uterus

Implantation site(s) present

No abnormalities found in: Adrenal Gland/2, Bone - sternum, Bone Marrow - sternal, Brain, Cecum, Clitoral Gland/2, Colon, Duodenum, Esophagus, Heart, Ileum, Jejunum, Kidney/2, Liver, Mandibular Lymph Node/2, Mesenteric Lymph Node, Ovary/1, Ovary/2, Pancreas, Parathyroid Gland/1, Parathyroid Gland/2, Peyer's Patches (GALT), Pituitary Gland, Rectum, Sciatic Nerve, Spinal Cord - cervical, Spinal Cord - midthoracic, Spinal Cord - lumbar, Stomach, Thyroid Gland/1, Thyroid Gland/2, Trachea, Urinary Bladder, Uterus -

cervix, Vagina.

Table 7 Individual Animal Data Records

Animal No: 72 SEX: Female

DOSE GROUP: Group 4, 500 mg/kg/day

MACROSCOPIC FINDINGS

days of treatment : 43

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 19/02/07 date of necropsy : 20/02/07

Lungs Focus/foci MANY, GRAY-WHITE

No abnormalities were found in any of the other

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tissues examined

MICROSCOPIC FINDINGS

Clitoral Gland/1 Cystic duct, inspissated contents (moderate)

Clitoral Gland/2 Cystic duct, inspissated contents (moderate)

Heart Inflammation, lymphoid (minimal)

Kidney/1 Hyaline cast(s) (minimal)

Tubular basophilia, corticomedullary (minimal)

Liver Inflammation, granulocytic/mononuclear (minimal)

Lungs Alveolar macrophage foci (slight) (correlates to

GROSS finding)

Alveolar inflammation, lymphocytic (moderate)

(correlates to GROSS finding)

Mesenteric Lymph Node Pigment, yellow-brown (minimal)

Spleen Hemopoietic foci, primarily erythroid (minimal)

Hemosiderin pigment (minimal)

Thymus Lymphoid atrophy - involution (moderate)

Uterus Implantation site(s) present

Test item : Dytek® DCH-99

Table 7 Individual Animal Data Records

Animal No: 72

SEX: Female

DOSE GROUP: Group 4, 500 mg/kg/day

MICROSCOPIC FINDINGS

(continued)

No abnormalities found in: Adrenal Gland/1, Adrenal Gland/2, Aorta, Bone - sternum, Bone Marrow - sternal, Brain, Cecum, Colon, Duodenum, Esophagus, Ileum, Jejunum, Kidney/2, Mandibular Lymph Node/1, Mandibular Lymph Node/2, Ovary/1, Ovary/2, Pancreas, Parathyroid Gland/1, Parathyroid Gland/2, Peyer's Patches (GALT), Pituitary Gland, Rectum, Sciatic Nerve, Spinal Cord - cervical, Spinal Cord - midthoracic, Spinal Cord - lumbar, Stomach, Thyroid Gland/1, Thyroid Gland/2,

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Trachea, Urinary Bladder, Uterus - cervix, Vagina.

Animal No: 73

MACROSCOPIC FINDINGS

days of treatment : 45

sacrifice group : planned terminal necropsy status : suspected infertile date of start of treatment: 08/01/07 date of end of treatment: 21/02/07 date of necropsy : 21/02/07

No findings noted

MICROSCOPIC FINDINGS

Vagina

Epithelial mucification (slight)

No abnormalities found in: Ovary/1, Ovary/2,

Uterus, Uterus - cervix.

Animal No: 74

MACROSCOPIC FINDINGS

days of treatment : 44

sacrifice group : planned terminal
necropsy status : planned terminal
date of start of treatment: 08/01/07
date of end of treatment: 20/02/07
date of necropsy : 21/02/07

: Dytek® DCH-99

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Individual Animal Data Records Table 7

Animal No:

74

SEX:

Female

DOSE GROUP:

Group 4, 500 mg/kg/day

MACROSCOPIC FINDINGS

(continued)

Lungs

Focus/foci MANY, GRAY-WHITE

No abnormalities were found in any of the other

tissues examined

MICROSCOPIC FINDINGS

Clitoral Gland/1

Cystic duct, inspissated contents (moderate)

Clitoral Gland/2

Cystic duct, inspissated contents (slight)

Liver

Hepatocellular vacuolation (slight) Hematopoietic cell foci (minimal)

Lungs

Alveolar macrophage foci (moderate)

Alveolar inflammation, lymphocytic (slight)

Spleen

Hemopoietic foci, primarily erythroid (slight)

Stomach

Dilated gastric pits (slight)

Thymus

Lymphoid atrophy - involution (slight)

Uterus

Implantation site(s) present

Vagina

Epithelial mucification (slight)

No abnormalities found in: Adrenal Gland/1, Adrenal

Gland/2, Aorta, Bone - sternum, Bone Marrow sternal, Brain, Cecum, Colon, Duodenum, Esophagus,

Heart, Ileum, Jejunum, Kidney/1, Kidney/2, Mandibular Lymph Node/1, Mandibular Lymph Node/2, Mesenteric Lymph Node, Ovary/1, Ovary/2, Pancreas, Parathyroid Gland/1, Parathyroid Gland/2, Peyer's Patches (GALT), Pituitary Gland, Rectum, Sciatic Nerve, Spinal Cord - cervical, Spinal Cord midthoracic, Spinal Cord - lumbar, Thyroid Gland/ 1, Thyroid Gland/2, Trachea, Urinary Bladder,

Uterus - cervix.

Test item : Dytek® DCH-99 NOTOX no. : 479003
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Table 7 Individual Animal Data Records

Animal No: 75 SEX: Female

DOSE GROUP: Group 4, 500 mg/kg/day

MACROSCOPIC FINDINGS

days of treatment : 45

sacrifice group : planned terminal necropsy status : suspected infertile date of start of treatment: 08/01/07 date of end of treatment: 21/02/07 date of necropsy : 21/02/07

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No findings noted

MICROSCOPIC FINDINGS

Uterus Inflammation, granulocytic/lymphocytic (minimal)

Vagina Epithelial mucification (minimal)

Number of Sections less than protocol for Ovary/1

(0).

No abnormalities found in: Ovary/2, Uterus -

cervix.

Animal No: 76

MACROSCOPIC FINDINGS

days of treatment : 44

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 20/02/07 date of necropsy : 21/02/07

No findings noted

MICROSCOPIC FINDINGS

No tissues taken

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Individual Animal Data Records Table 7

77 Animal No: SEX: Female

DOSE GROUP: Group 4, 500 mg/kg/day

MACROSCOPIC FINDINGS

days of treatment : 45

sacrifice group : planned terminal necropsy status : suspected infertile date of start of treatment: 08/01/07 date of end of treatment: 21/02/07 date of necropsy : 21/02/07

No findings noted

MICROSCOPIC FINDINGS

Vagina Epithelial mucification (moderate)

No abnormalities found in: Ovary/1, Ovary/2,

Uterus, Uterus - cervix.

Animal No: 78

MACROSCOPIC FINDINGS

days of treatment : 43

: planned terminal sacrifice group : planned terminal necropsy status date of start of treatment: 08/01/07 date of end of treatment: 19/02/07 : 20/02/07 date of necropsy

Focus/foci MANY, GRAY-WHITE Lungs

No abnormalities were found in any of the other

tissues examined

MICROSCOPIC FINDINGS

Clitoral Gland/1 Cystic duct, inspissated contents (minimal)

Inflammation, granulocytic/mononuclear (minimal) Liver

Hepatocellular vacuolation (minimal)

Alveolar macrophage foci (moderate) (correlates to Lungs

GROSS finding)

Alveolar inflammation, lymphocytic (moderate)

(correlates to GROSS finding)

: Dytek® DCH-99 Test item

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Individual Animal Data Records Table 7

Animal No:

78

SEX:

Female

DOSE GROUP:

Group 4, 500 mg/kg/day

MICROSCOPIC FINDINGS

(continued)

Mesenteric Lymph Node Pigment, yellow-brown (minimal)

Spleen

Hemopoietic foci, primarily erythroid (slight)

Hemosiderin pigment (minimal)

Uterus

Implantation site(s) present

Vagina

Epithelial mucification (moderate)

No abnormalities found in: Adrenal Gland/1, Adrenal Gland/2, Aorta, Bone - sternum, Bone Marrow sternal, Brain, Cecum, Clitoral Gland/2, Colon, Duodenum, Esophagus, Heart, Ileum, Jejunum, Kidney/1, Kidney/2, Mandibular Lymph Node/1, Mandibular Lymph Node/2, Ovary/1, Ovary/2,

Pancreas, Parathyroid Gland/1, Parathyroid Gland/ 2, Peyer's Patches (GALT), Pituitary Gland, Rectum, Sciatic Nerve, Spinal Cord - cervical, Spinal Cord - midthoracic, Spinal Cord - lumbar, Stomach, Thymus, Thyroid Gland/1, Thyroid Gland/2,

Trachea, Urinary Bladder, Uterus - cervix.

Animal No:

79

MACROSCOPIC FINDINGS

days of treatment : 41

sacrifice group : planned terminal necropsy status : suspected infertile date of start of treatment: 08/01/07 date of end of treatment: 17/02/07

date of necropsy : 17/02/07

No findings noted

: Dytek® DCH-99 Test item

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Table 7 Individual Animal Data Records

79 Animal No:

SEX:

Female

DOSE GROUP: Group 4, 500 mg/kg/day

MICROSCOPIC FINDINGS

Uterus Implantation site(s) present

Vagina Epithelial mucification (moderate)

No abnormalities found in: Ovary/1, Ovary/2, Uterus

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- cervix.

Animal No: 80

MACROSCOPIC FINDINGS

days of treatment : 43

sacrifice group : planned terminal necropsy status : planned terminal date of start of treatment: 08/01/07 date of end of treatment: 19/02/07 date of necropsy : 20/02/07

Focus/foci MANY, GRAY-WHITE Lungs

No abnormalities were found in any of the other

tissues examined

MICROSCOPIC FINDINGS

Cystic duct, inspissated contents (moderate) Clitoral Gland/1

Clitoral Gland/2 Cystic duct, inspissated contents (slight)

Heart Myofiber necrosis (minimal)

Tubular basophilia, corticomedullary (minimal) Kidney/1

Liver Inflammation, granulocytic/mononuclear (minimal)

Hepatocellular vacuolation (minimal)

Lungs Alveolar macrophage foci (slight) (correlates to

GROSS finding)

Alveolar inflammation, lymphocytic (slight)

(correlates to GROSS finding)

Mesenteric Lymph Node Pigment, yellow-brown (minimal)

Test item : Dytek® DCH-99

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Table 7 Individual Animal Data Records

Animal No:

80

SEX:

Female

DOSE GROUP:

Group 4, 500 mg/kg/day

MICROSCOPIC FINDINGS

(continued)

Spleen

Hemopoietic foci, primarily erythroid (slight)

Stomach

Dilated gastric pits (minimal)

Uterus

Implantation site(s) present

Vagina

Epithelial mucification (minimal)

No abnormalities found in: Adrenal Gland/1, Adrenal Gland/2, Aorta, Bone - sternum, Bone Marrow - sternal, Brain, Cecum, Colon, Duodenum, Esophagus, Ileum, Jejunum, Kidney/2, Mandibular Lymph Node/1, Mandibular Lymph Node/2, Ovary/1, Ovary/2,

Pancreas, Parathyroid Gland/1, Parathyroid Gland/2, Peyer's Patches (GALT), Pituitary Gland, Rectum, Sciatic Nerve, Spinal Cord - cervical, Spinal Cord - midthoracic, Spinal Cord - lumbar, Thymus, Thyroid Gland/1, Thyroid Gland/2, Trachea,

Urinary Bladder, Uterus - cervix.

Test item : Dytek[®] DCH-99
Test System : Combined Repro/Tox Screening Test by Gavage in Rats Sponsor : Invista S.a.r.l.

07014 : 23.May.2007 479003 NOTOX no. Propath no. Date

92/92

Page

Staging of Spermatogenesis Table 8

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sijus	10 mg		minimal							Unilateral minimal tubular atrophy
Comments			Unilateral giant cells				34			Unilatera
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	o		10 Sec. 12							
Stage:	animal no.	8	4	ဗ	7	31	32	34	35	36

= Stage present

x = Stage missing

IV - VI: Acrosome

I - III: No acrosome

? = See comment

VII - VIII: Sperm release IX - XI: Round → oval spermatid nucleus XII - XIV: Spermatid head rod-shaped

Dytek® DCH-99 APPENDIX 5

APPENDIX 5 SUMMARY DOSE RANGE FINDING STUDY

SUMMARY OF DOSE RANGE FINDING STUDY

In order to set the dose levels for the main study (NOTOX Project 479003), a pilot study was performed.

In first instance, groups of 3 females (6-12 weeks old) were dosed at 500 or 1000 mg/kg body weight/day (Groups 1 and 2) for 8 days by oral gavage with a dose volume of 5 ml/kg body weight. Based on the results obtained at these dose levels, it was decided to increase the dose volume, by which the dose concentration was decreased to solve irritation to the stomach. Three naïve animals (8-10 weeks old) were dosed at 500 mg/kg body weight/day (Group 3) for 8 days by oral gavage at a dose volume of 20 ml/kg body weight. Subsequently, three naïve animals were dosed at 1000 mg/kg body weight/day (Group 4) for 8 days by oral gavage at a dose volume of 20 ml/kg body weight.

All animals were housed 3 per cage, identified by ear- and tailmark and allocation was performed at random. If not mentioned otherwise, test system and techniques were identical to those used during the main study.

Data was collected under NOTOX Project 481038.

Planning Delivery: 15 November 2006

Start treatment: 24 November 2006 (Groups 1 and 2)

01 December 2006 (Group 3) 13 December 2006 (Group 4)

Terminal procedures:

08 December 2006 (Group 3) 20 December 2006 (Group 4)

Chemical analysis Not performed during the pilot study.

Observations Clinical signs: At least once daily.

Mortality: At least twice daily. Body weights: On Days 1, 4 and 8.

Food consumption: Over Days 1-4 and 4-8.

Pathology No organs were fixed.

Terminal body weight, organ weights: kidney and liver.

RESULTS

500 and 1000 mg/kg, 5 ml/kg

Two females at 500 mg/kg and a dose volume of 5 ml/kg and one female at 1000 mg/kg and a dose volume of 5 ml/kg were killed in extremis on 27 November 2006. These animals showed severe body weight loss, clinical signs and at necropsy stomach abnormalities.

500 mg/kg, 20 ml/kg

Reduced body weight gain and food consumption was observed.

1000 mg/kg, 20 ml/kg

Severe toxicity was observed, which comprised of death and stomach and/or liver abnormalities.

CONCLUSION

Based on these results, the dose levels for the main study will be 50, 150 and 500 mg/kg body weight/day, at a dose volume of 20 ml/kg.